

## Ad Hoc Networks - Mobile Ad Hoc Networks Winter 2007/2008

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### Setting Up USBnet

The main article on setting up usbnet can be found at Gumstix Wiki. However, we also prepare a very short instruction we took to get it run.

1. Connect Connex to Stuart so that you can work on Gumstix from your host.
2. Connect Gumstix to PC via serial cable. Use the serial port closest to the power connector. A single letter L is displayed if you are in the other serial port. Login using user id: root, and password: gumstix). Check network configuration by *ifconfig* command.
3. For laptop without serial port, you need USBnet to work with Gumstix. But, you have to use serial console to configure and setup USBnet first.
4. File needed: linux.inf. Please find it at our temporary repository.
5. Configure usb network by *ifconfig* on Gumstix using serial console. You can assign a static address using any private IP address, e.g. `ifconfig usb0 10.0.5.1`.
6. Configure IP address on PC and disable Windows firewall.
7. Test connection by http-ing Gumstix (e.g. try `http://192.168.0.2` on your web browser).
8. You can modify `/etc/network/interfaces` file to ensure that your configuration is loaded during each system boot.
9. You need a shell client. Download SSH Secure Shell Client (or other shell client) and ssh to Gumstix using root as user. You can find the installer for SSH Secure Shell Client at our temporary repository too.
10. For file transfer over USBnet, use `scp` command.

References that might be useful for you:

- *ifconfig* Manual.
- Dave Hyland's Webpage on Gumstix