

### **I don't own an S60 device anymore, so development on miniproxy has STOPPED!**

I recently got a new Cell Phone: The Samsung SGH-i560, which is a Symbian-based device with HSDPA and Bluetooth, but lacks WiFi-support. I thought it would be possible to surf the web via Bluetooth, using my computer's internet connection. Unfortunately, this is not true. So, what to do?

I found two projects, both are abandoned at the time of this writing, trying to provide a fix: GnuBox, which works for every protocol using a special access point, and Hiisi Proxy that is programmed in Java and works only for HTTP, but needs a special Java-Server on the host PC to work. **Why a new Proxy?**

GnuBox made my cell phone crash. Same issues as on the E51, it is simply unusable.

Hiisi Proxy works, more or less, but I didn't succeed in setting up the Server on Linux and it is even impossible to use the Server on my Linux-based Router (no Java).

I therefore decided to write my own little proxy: In Python. The Samsung is capable of running Nokia's PyS60 (you have to crack open the firmware first) and my Router is also able to run Python.

So, find my first implementation in the download section! I used YaPN as an example on how to write a Proxy in PyS60.

### **Notes:**

Tested configurations for Server side:

- Ubuntu 8.10, BlueZ/Python 2.5.2/PyBluez 0.15
- Windows Vista, MS Stack/Python 2.5.4/PyBluez 0.15
- Windows XP SP2, MS Stack/Python 2.5.4/PyBluez 0.15

Tested configurations for Client side:

## Simple Bluetooth Proxy for PyS60 and Linux

Written by Andreas Böhler

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- Samsung i560 (S60 3rd FP1), Native Stack/PyS60 1.4.5
- Ubuntu 8.10, BlueZ/Python 2.5.2/lightblue 0.3.3

MacOS X is still untested! On XP, the WIDCOMM-Stack does not work correctly, although it is supported by PyBluez. I'll have to look into this further..

### Instructions:

- Pair your computer and your mobile and set the devices trusted.
- On the computer, install lightblue or pybluez and run miniproxy\_server.py
- Install Python and Python Script Shell on your mobile phone
- Create a new Access Point, filling in only the Proxy Server: 127.0.0.1 and the Proxy Port: 1234 and name it for instance Proxy. If you have Hiisi installed, you can also use the Hiisi AP
- Transfer miniproxy\_client.py to your phone's E:Python drive and run it from within Python -> Run Script. It will ask you to connect to a computer. Select the computer running miniproxy\_server.py and then BT Proxy Service as Port.
- Switch to a Web Browser and enjoy!

### Todo:

The proxy implementation is not complete yet.

Correctly support the WIDCOMM-Stack on XP.

### Help:

If you have any comments, suggestions or improvements, please don't hesitate to contact me at andy (dot) boehler (at) gmx (dot) at

### Download:

You can download both scripts in the [Downloads](#) section.

### Changelog:

v0.04, 2009/01/07:

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Server: Windows support is now complete, tested only on Vista and XP, Microsoft-Stack only!

Server: Client disconnects are now correctly detected, no need to restart the server on client disconnect

Client: Correctly exit on CTRL+C

v0.03.1, 2009/01/06:

Server: Added better Windows support (not extensively tested!)