



Setting up a PPP to a Compaq iPAQ

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This document describes how to setup the iPAQ for a PPP connection with another QNX box. This documents assumes that you have a fresh install of the QNX iPAQ BSP.

On the iPAQ you do the following:

- 1) Create a bunch of directories:
 - # mkdir /var/lock
 - # mkdir /var/run
 - # mkdir /etc/config
 - # mkdir /etc/ppp
- → contains pid file
 → contains ttys file

 \rightarrow contains lock file

- → contains ppp options file
- 2) Make sure that /etc/passwd contains a line like: ppp::101:101:PPP User:/home/ppp:/usr/sbin/pppd If this line does not exist, you create like this: # echo "ppp::101:101:PPP User:/home/ppp:/usr/sbin/pppd" >> /etc/passwd



3) Create /etc/ppp/options.

echo "-detach
defaultroute
noauth
nocrtscts
lock
lcp-echo-interval 5
lcp-echo-failure 3
/dev/ser3
115200
local
asyncmap 0" > /etc/ppp/options

- 4) Create /etc/config/ttys. This file is used by tinit. This is the equivalent of the QNX4 method 'tinit c"/dev/ser3" –T "/usr/sbin/pppd" 'You create the file like this: # echo "ser3 \"/usr/sbin/pppd\"" > /etc/config/ttys
- 5) You have to modify the original /etc/init because /lib/dll/npm-pppmgr.so is not enabled by default. The most easiest way to do this is: # echo "mount -T io-net /lib/dll/npm-pppmgr & tinit" >> /etc/init
- 6) Reboot the iPAQ







On the desktop you do the following:

Restart io-net with the forward option:

slay io-net
io-net -ptcpip forward -pqnet -ppppmgr &

netmanager

With the forward option, you can access the whole network from the iPAQ.

To make a ppp connection with the iPAQ:

pppd /dev/ser1 115200 nodetach noauth user ppp \ 192.168.0.50:192.168.0.51 debug

If you have followed all steps, then you must have a ppp connection now. Your iPAQ is acting as dialup server now.

What can you do now:

- If you have slinger running on the client, you can connect to it from the ipaq
- lots of other cool stuff like writing your own hotsync manager.
- Visit <u>www.qnxzone.com/ipaq</u> and see what you can do for the community.

More information: http://www.qnx.com http://www.qnxzone.com/ipaq http://207.198.90.123/ipaq_bsp/ Prime EDA is the QNX distributor for the Netherlands. http://www.prime-eda.com freddy@prime-eda.com

