

PPP connection from Pocket PC to Linux fails

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I am trying to create a PPP link between a PocketPC (client) and a linux pppd server but this keeps failing at the same point.

I have created a dial-up connection on the PocketPC using RAPI provisioning. Here is the xml for that:

```
*****
<wap-provisioningdoc>
<characteristic type="CM_PPPEntries">
<characteristic type="OwasysPPPLink">
<!-- Destination network: The Internet -->
<parm name="DestId" value="{436EF144-B4FB-4863-
A041-8F905A62C572}" />
<!-- Phone num -->
<parm name="Phone" value="" />
<!-- Specify IP address - 0=off, 1=on -->
<parm name="SpecificIpAddr" value="0" />
<!-- Specify DNS servers, 0=off, 1=on -->
<parm name="SpecificNameServers" value="0" />
<!-- Specify PPP -->
<parm name="Framing" value="1" />
<!-- Specify device -->
<parm name="DeviceType" value="direct" />
<parm name="DeviceName" value="Serial Cable on COM1:" />
<!-- Enable -->
<parm name="Enabled" value="1" />
<!-- No security/authentication -->
<parm name="Secure" value="0" />
<parm name="RequirePw" value="0" />
<!-- Compression 0=off, 1=on -->
<parm name="IpHeaderCompression" value="1" />
<parm name="SwCompression" value="1" />
<!-- -->
<parm name="RemoteDefaultGateway" value="1" />
<!-- Modem spec -->
<characteristic type="DevSpecificUnimodem">
<parm name="BaudRate" value="57600" />
<parm name="ByteSize" value="8" />
<parm name="StopBits" value="1" />

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```
<parm name="Parity" value="0" />
<parm name="Compression" Value="0" />
<parm name="FlowControlHard" value="1" />
<parm name="FlowControlSoft" value="0" />
<parm name="ToneDial" value="1" />
<parm name="BlindDial" value="1" />
<parm name="CallSetupFailTimer" value="0" />
</characteristic>
</characteristic>
</characteristic>
</wap-provisioningdoc>
```

The pppd server is configured with the following options:

```
# pppd options file for incoming connection from PocketPC/PDA
# -----
# The name of the link
linkname pda
# log the contents of all control packets sent/received in readable
form
debug
# The file to log to
logfile /tmp/pppDebug
# The device the modem is connected to
/dev/ttyS3
# Create a lock for the device to ensure exclusive access to the
device
lock
# The port speed (baud rate)
57600
# Specify HW flow control
crtsets
# Hide the password in communications
hide-password
# Do not require the peer to authenticate itself
noauth
# Don't detach from the controlling terminal
nodetach
# IP addresses and DNS servers:
# -----
# local IP address : remote IP address
192.168.2.1:192.168.2.2
# Set the interface netmask
netmask 255.255.255.0
# Supply DNS addresses to Microsoft Windows clients
ms-dns 195.167.65.194
ms-dns 213.249.17.11
# Do not add a default route to the system routing tables
nodefaultroute
```

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```
# Add an entry to the system's arp table. this will have the effect of
making
# the peer appear to other systems to be on the local ethernet.
proxyarp
# Set the ACCM map for this end of the link
asynmap 0
# With this option, pppd will accept all control characters from the
peer,
# including those marked in the receive asynmap. Without this option,
pppd
# will discard those characters as specified in RFC1662. This option
should
# only be needed if the peer is buggy (can be useful for Microsoft
Windows clients)
receive-all
# Specify a script to setup the connection.
# This script uses the chat program to initialise the connection to
# a Microsoft Windows client
connect "chat 'CLIENT' 'CLIENTSERVER\\c'"
*****
```

This is the pppd log from the connection attempt:

```
***** Log 1
*****
Trying to setdtr to 0.
setdtr to 0.
Serial connection established.
using channel 1
Using interface ppp0
Connect: ppp0 <--> /dev/ttyS3
rcvd [LCP ConfReq id=0x0 <asynmap 0x0> <pcomp> <accomp>]
Warning - secret file /etc/ppp/pap-secrets has world and/or group
access
sent [LCP ConfReq id=0x1 <asynmap 0x0> <magic 0x86517350> <pcomp>
<accomp>]
sent [LCP ConfAck id=0x0 <asynmap 0x0> <pcomp> <accomp>]
rcvd [LCP ConfAck id=0x1 <asynmap 0x0> <magic 0x86517350> <pcomp>
<accomp>]
sent [IPCP ConfReq id=0x1 <addr 192.168.2.1> <compress VJ 0f 01>]
rcvd [CCP ConfReq id=0x0 < 12 06 00 00 00 01>]
sent [CCP ConfReq id=0x1]
sent [CCP ConfRej id=0x0 < 12 06 00 00 00 01>]
rcvd [IPCP ConfReq id=0x0 <compress VJ 0f 00> <addr 0.0.0.0> <ms-dns1
0.0.0.0> <ms-wins 0.0.0.0> <ms-dns3 0.0.0.0> <ms-wins 0.0.0.0>]
sent [IPCP ConfRej id=0x0 <ms-wins 0.0.0.0> <ms-wins 0.0.0.0>]
rcvd [proto=0x8057] 01 00 00 0e 01 0a 02 30 05 ff fe b6 3b 71
Unsupported protocol 0x8057 received
sent [LCP ProtRej id=0x2 80 57 01 00 00 0e 01 0a 02 30 05 ff fe b6 3b
71]
rcvd [IPCP ConfAck id=0x1 <addr 192.168.2.1> <compress VJ 0f 01>]
sent [IPCP ConfReq id=0x1 <addr 192.168.2.1> <compress VJ 0f 01>]
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```
<accomp>]
sent [IPCP ConfReq id=0x1 <addr 192.168.2.1> <compress VJ 0f 01>]
rcvd [CCP ConfReq id=0x0 < 12 06 00 00 00 01>]
Unsupported protocol 'Compression Control Protocol' (0x80fd) received
sent [LCP ProtRej id=0x2 80 fd 01 00 00 0a 12 06 00 00 00 01]
rcvd [IPCP ConfReq id=0x0 <compress VJ 0f 00> <addr 0.0.0.0> <ms-dns1
0.0.0.0> <ms-wins 0.0.0.0> <ms-dns3 0.0.0.0> <ms-wins 0.0.0.0>]
sent [IPCP ConfRej id=0x0 <ms-wins 0.0.0.0> <ms-wins 0.0.0.0>]
rcvd [proto=0x8057] 01 00 00 0e 01 0a 02 30 05 ff fe b6 3b 71
Unsupported protocol 0x8057 received
sent [LCP ProtRej id=0x3 80 57 01 00 00 0e 01 0a 02 30 05 ff fe b6 3b
71]
rcvd [IPCP ConfAck id=0x1 <addr 192.168.2.1> <compress VJ 0f 01>]
rcvd [IPCP ConfReq id=0x1 <compress VJ 0f 00> <addr 0.0.0.0> <ms-dns1
0.0.0.0> <ms-dns3 0.0.0.0>]
sent [IPCP ConfNak id=0x1 <addr 192.168.2.2> <ms-dns1 195.167.65.194>
<ms-dns3 213.249.17.11>]
rcvd [IPCP ConfReq id=0x2 <compress VJ 0f 00> <addr 192.168.2.2> <ms-
dns1 195.167.65.194> <ms-dns3 213.249.17.11>]
sent [IPCP ConfAck id=0x2 <compress VJ 0f 00> <addr 192.168.2.2> <ms-
dns1 195.167.65.194> <ms-dns3 213.249.17.11>]
Cannot determine ethernet address for proxy ARP
local IP address 192.168.2.1
remote IP address 192.168.2.2
Script /etc/ppp/ip-up started (pid 144)
Script /etc/ppp/ip-up finished (pid 144), status = 0x0
*****
```

Does anyone have any ideas what could be the problem here? I do not see anything strange in the PPP log.

Also, is there an equivalent log on the Pocket PC? Can it be read somehow?

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