1dc284a0-0

Thomas Bickel

COLLABORATORS

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REVISION HISTORY

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1.1 AmiPPP

```
                                AmiPPP 1.21


        What is new
                        The easiest way to connect to the Internet




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1.2   Introduction

  When I first tried to set up AmiTCP and ppp.device I noted that it is
  a real pain. I was used to MacTCP and MacPPP, which is realy easy
  to use, I simply entered my providers phonenumber and my ID and
  password clicked on "Open" and the connection was established.

  But on the Amiga I had to edit some config files, set up a dialer,
  perform some magic and after all that it was still a pain to use.
  I decided to write an own device, that should be as easy to use
  as MacPPP, a click and go solution.

  AmiPPP is the result. It is very easy to configure (completly GUI
  driven, no "external" text files) and once set up it will call
  your provider, log in, establish the PPP connection and, if you
  wish, start AmiTCP. All that on the click of a button.

  I hope you enjoy it, Tom

1.3   Informations and Requirements

  AmiPPP (and amippp.device) is a easy solution for people that need to
  connect to their provider via the Point to Point Protocoll (PPP).
  It consists of the device (amippp.device) the control and configuration
  tool (AmiPPP) and the guide you are reading right now.

  It has a built in dialer, features PAP and is easy to use due to the
  fact that it is completly GUI driven.

  Note that the format of the config file has changed in v1.1, if you
  were using 1.0 before please use ConvertConfig to convert it to the
  new format.

  AmiPPP will use OwnDevUnit.library if it is present in your libs: dir.

  It requires at least OS 2.04.
  A 68020 processor or better is recomended but not required.

1.4   Installation

                This section describes the installation process for AmiTCP. It ←
                    is
  assumed you already installed AmiTCP and that you have selected

the ppp-installation.

First get the files in place:

    1) Copy "amippp.device" to devs:

    2) Copy the other files to any place you want

Then configure AmiTCP to use AmiPPP:

Add the following line to "AmiTCP:db/interfaces":
amippp DEV=DEVS:amippp.device UNIT=0 P2P IPTYPE=2048 IPREQ=16 WRITEREQ=16

Everything else depends on the version of AmiTCP you are using, in
general change "ppp0" to "amippp", the env-variables "AmiPPPipRemote"
and "AmiPPPipLocal" will hold the remote and local IP addresses.

Here is a example from my AmiTCP 4.0 startnet file:

; Configure amippp
AmiTCP:bin/ifconfig amippp $amipppiplocal $amipppipremote
; Add route to this host
AmiTCP:bin/route add $amipppiplocal localhost

A more complete example is
            here
              .

For later versions of AmiTCP (e.g. 4.2) it is enough to change
.def IFACE ppp0
to
.def IFACE amippp

For AmiTCP 4.3 config info click
            here
              .

Note that a installation with pre 4.0 versions is a pain and requires
some workarounds. It will be easier to update AmiTCP in this case.

1.5 Configuration

                This section describes the configuration of AmiPPP itself.
Follow these steps for a basic setup:

  1) Start AmiPPP (see below for a explanation of the GUI)

   2) Click on "Serial" and config the serial options

   3) Click on "Config" to edit POP dependend settings:
      a) Change name and phonenumber
      b) If you need a connect script click on the button and enter it
      c) If you need PAP click on the "Authentication" button and
         enter your id and password (you can also leave the fields blank
         to indicate they are to be entered at connect time, when the
         other side asks for PAP)

   4) Leave the other options alone if you don't know what you do.
      However once you got AmiPPP working you may want to change
      the Async Character Control Map (ACCM) to 00000000. This will
      speed up the link (if it's working).

   5) Go back to the AmiPPP main window, click on "Open" and the connection
      will be established. If it does not work check the settings and
      try again (also read the stuff below).

* GUI explanation:

Open

This will make AmiPPP call your provider, log in and establish the
connection.

Hard Close

This will close a open connection. The difference to "Soft Close" is
that there will be no other way to reopen the connection than to click
on the "Open" button. AmiPPP will reject requests to go online (made
e.g. with the CLI command "online").

POP

This is the name of the provider that will be called when you click
on the "Open" button. You can change this if you click on "Config".

Config

Lets you config the settings for the selected POP.
see
            POP Config
                Soft Close

This will close the connection.

New

Add a new POP.

Stats

This will show some statistics. see
            Stats Window
                Delete

Delete the selected POP (will not work if there is only one).

Serial

Edit the serial settings. see
              Serial Settings
                    Scripts

Edit "online" and "offline" scripts. see
              Scripts Config
                    About

Some information about AmiPPP.

1.6 POP Config

                    The "POP Server Config" window lets you set provider dependend ←
                        data.

POP Server Name

Some text string that identifies your provider.

Phone Number

Your providers phonenumber.
If not specified AmiPPP will not send a dial command to the modem or
wait for the CONNECT message, in this case you must already be connected
or AmiPPP will connect to itself due to the fact that the modem echos
back all sent packets.

Modem Init

The initialization command that should be send to your modem, before
AmiPPP starts to dial. Leave blank if you don't want to use this.

Modem Timeout

The maximum number of seconds to wait for a connection.

Connect Script

Depending on your provider you might need a connect script (e.g. to send
your login and password). see
              Connect Script
                    Authentication

Lets you set your ID and password for PAP authentication.
see
              Authentication
                    LCP

Link Control Protocol Options. If you don't know what it is leave it
alone. You may however try to set the remote Async Character Control
Map (ACCM) to 00000000, which will speed up the link a bit.

```
IPCP
----
The same as above, if you don't know what it is you don't need to
change it.

LCP/IPCP want/will stuff
------------------------
Local:
 Want:  Options we want (will be requested) and desired values.
 Will:  Options we will accept in a NAK from remote.

Remote:
 Want:  Options we want from remote (suggest in NAK if not present
        in REQ).
 Will:  Options we will accept in a REQ from remote.
```

1.7 Connect Script

```
Wait Timeout
------------
Selects the number of seconds to wait for a string.


There are ten lines that look like this (some ANSI art :) :
-------------------------------------
| Wait | login:                | -- |
-------------------------------------
  ^          ^ The text to send       ^ "--" or "CR". In case of "CR" a
  |          | or wait for.           | carriage return will be added
  |          |_____      | to the entered text.
  |                                    |_____
  | "Wait" or "Out". In case of
  | "Wait" AmiPPP will wait for the
  | text, else it will send it.
  |_____


To add a delay of 200 ms you can use a '~' in the text, e.g. to send
'abc' wait 200 ms, send 'def', wait 400 ms, send 'ghi' use
'abc~def~~ghi' as text. To send a ~ out you have to escape it with
a backslash: '\~'

A login script that first waits 1 sec then waits for "login:", sends
"paul", waits for "password:" and then sends "ringo" would look
like this:

----------------------------------
| Out  | ~~~~~              | -- |
----------------------------------
| Wait | login:             | -- |
----------------------------------
| Out  | paul               | CR |
----------------------------------
| Wait | password:          | -- |
```

```
---------------------------------
| Out  | ringo             | CR |
---------------------------------
```

For unused fields simply leave the text gadget empty.

1.8 Authentication Config

The following settings will be needed if you want to use PAP.
The id and password fields may be left blank to indicate that they
are to be entered at connect time.

```
Auth. ID
--------
```
Your authentication id. Whatever that is.

```
Password
--------
```
Your password.

```
Allow PAP
---------
```
(Dis)allow PAP authentication.

```
Allow MD5 CHAP
--------------
```
(Dis)allow MD5 CHAP authentication.

```
Allow MS CHAP
-------------
```
(Dis)allow MicroSoft CHAP authentication. Use this to make WinNT servers
happy. Note that only the WinNT field is filled in but not the LAN
Manager field.

```
Retries
-------
```
Number of retries.

```
Timeout
-------
```
Timeout in seconds.

1.9 Statistics Window

This window displays some link statistics that may be helpfull to nail
down problems.
The values will be updated automatically every second.

```
Reset
-----
```
Reset all values to 0.

```
Exit
----
Close the window.
```

1.10   Serial Settings

```
Device
------
The serial device you would like to use.
NOTE: I had quite some problems with 8n1.device (division by 0 gurus),
      so please use some other device (e.g. v34serial.device).

Unit
----
Serial unit.

Baud
----
Serial baud rate.

Idle Timeout
------------
If within the number of minutes choosen here no data is received a
requester will open and you have the choise to close the link or
continue (but see "Quiet Mode" below).
Set to 0 to disable this feature.

Echo Interval
-------------
If non zero, sets the number of seconds between echo packets.
Set to 0 to disable this feature.

Modem Wait
----------
Sets the time in 10th of a second AmiPPP will wait before the next string
is sent to the modem.

Dial Mode
---------
Select Pulse for pulse dial (ATDP), Tone for tone dial (ATDT), ISDN
for ISDN dial (ATDI).

Hangup On Close
---------------
If selected the "+++ATH0" method will be used to hang up.

Quiet Mode
----------
If selected, in case of a "Idle Timeout", AmiPPP will disconnect without
asking.
```

1.11   Script Config

```
You can make AmiPPP execute some commands
a) after the device went online
b) after the device went offline.
c) whenever you click on open
d) whenever you click on close

This will only work if the GUI is open!

E.g. to run "startnet" you could set the "Online Command" to:
run <>CON:///100/Startnet/auto/close execute AmiTCP:bin/startnet


Note: If you run AmiPPP from Workbench and don't use 'run' to start
      the scripts it is very likely that you get a error message,
      telling you that a command cannot be found. That is because
      programs run from WB don't get all all the path informations
      as shell launched programs do.
      Solutions: Specify the full path for all commands, use 'run' or
      launch AmiPPP from a shell.
```

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```
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one one computer and in no case passed on to others. Offences will
result in penal prosecution by me. With your signature on the order form,
you accept these conditions.

  Any re-distribution has to include all files in the archive, without
```

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----

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The md4 and md5 code was derived from RSA code:

 md4.c -- Implementation of MD4 Message Digest Algorithm
 Updated: 2/16/90 by Ronald L. Rivest
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 md5.c -- the source code for MD5 routines
 RSA Data Security, Inc. MD5 Message-Digest Algorithm
 Created: 2/17/90 RLR
 Revised: 1/91 SRD,AJ,BSK,JT Reference C ver., 7/10 constant corr.

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1.13 Registration From

                        AmiPPP Registration Form
                        ~~~~~~~~~~~~~~~~~~~~~~~~~

Name: _____

Address: _____

           _____

Country: _____

```
EMail-Address: _____

Computer Type:  A __00

Processor:      680___

Kickstart Version: _____

Comment: _____

         _____

         _____
```

I am sending the shareware fee as (please mark as appropriate)

    o ATS 140.- / DM 20.- / US$ 15.- / UK£ 10.- in cash,
       included with this letter
    o Eurocheque over ATS 150.-, included with this letter

Please send me the keyfile (please mark as appropriate)

    o in uuencoded form to my EMail address
    o on disk to my postal adress

I have read the "Licence Agreement" in the manual and agree with
the conditions. Specifically, with my signature, I commit on
installing the keyfile only on one computer and not giving it
to others.


```
_____    _____
        (Date)                            (Signature)
```


Send this filled out form along with the money to:
    Thomas Bickel
    Effingergasse 10/12
    A-1160 Wien
    Austria / Europe

1.14 It's Shareware

AmiPPP is shareware, to make it easier for you to decide where ←
                you want
  to register or not the unregistered version has some built in
  requesters that will remind you of the fact that you are using an
  unregistered version.

Registered users will receive a personalized keyfile which will remove
the "remind requesters". This keyfile will work with all future versions
of AmiPPP. In addition to that the registered version is faster than
the unregistered version. Therefore if you have to pay for online time
(to your phone company and/or provider) it will be cheaper for you if
you register.

How to become a registered user:

Fill out the
              Registration Form
              ,print it out, sign it and send it
along with the registration fee to me.

The Keyfile will be sent to your email address or on disk to your
postal address (as you like).

1.15 The Author

If you want to get in touch with the author of this software...

My address:
   Thomas Bickel
   Effingergasse 10/12
   A-1160 Wien
   Austria

EMail:
   tbickel@xpoint.at

Fido:
   2:310/72.34

1.16 Known Bugs

                 * Please note that 8n1.device causes division by zero gurus ↩
                    sometimes
  and should not be used with AmiPPP.
  You can use v34serial.device or the original serial.device instead.

* If you think the device is slow, try a different serial device.
  Some people reported e.g. that using the original serial.device
  made ppp work much faster.

* If a script is executed you get "Unknown command" errors:
      have a look at the
              Scripts
               section

* If AmiPPP connects ok but you get a lot of InErrors (find out in
  the statistics window), try to change the MTU options and/or values.

The PPP standard supports different MTU values for each direction, but
the SANA-II standard does not.

* If you get 0.0.0.0 for local or remote address, the things you are
  looking for are the IPCP options ('Address' and 'Addresses').
  Note however that you should not request 'Addresses' from the remote
  unless you know what you do.

1.17 Version History

```
1.21
----
Added cli argument CONNECT.
Stats get automatically updated now.


1.2
---
Added CHAP authentication protocol (MS and MD5). Note that this was not
  fully tested, but a lot of people asked for it so I included it in this
  version. Please report any bugs you find to me.
Added AmiTCP 4.3 installation information.
Added ISDN dialstring (ATDI) to serial config.
Changed IPCP options again. Made 'Addresses' option visible to users
  (will help if you have problems with 0.0.0.0 addresses).
The config file format has changed. You don't need to convert it, but
  don't try to use an older version of AmiPPP with a config file that
  was written with v1.2.


1.1a
----
Fixed stupid bug in IPCP options, the options were not set properly as
  they should have been, if you have had problems with incorrect
  dynamic addresses or header compression (lots of InErrors) then
  go to the "IPCP Options" and click on "Default Settings" (don't
  forget to make a backup of your old config befor you do that!).
Fixed problems with serial device if OwnDevUnit.library is not available.
Fixed problem of last number cut from address in IPCP options.


1.1
---
Added OwnDevUnit.library support.
Added possiblity to change the delays between modem strings.
Added delay between chars sent to the modem.
Added two more lines to the login script.
If you specify no phonenumber AmiPPP will not send a dial command to the
modem or wait for a connect message.
Added "Open" and "Close" scripts.
A '~' can now be used in login scripts to add a delay of 200 ms for
outgoing strings.

NOTE: The config file format has changed, please use ConvertConfig to
convert a v1.0 configuration to v1.1.

1.0a
----
```

```
Fixed that "crash-upon-exit" guru.

1.0
---
First public release.
```

1.18 Startnet Example

```
; This is an example AmiTCP 4.0 startnet file for use with AmiPPP.
; $amipppiplocal and $amipppipremote are env-variables, they will hold
; the local and remote ip addresses after the connection has been
; established.

; log in

echo login: johndoe
AmiTCP:bin/login -f johndoe
AmiTCP:bin/umask 022
AmiTCP:AmiTCP
WaitForPort AMITCP

; If you run startnet from AmiPPP you can comment out the next line
AmiTCP:bin/online amippp.device 0


; Configure loop-back device
AmiTCP:bin/ifconfig lo0 localhost

; Configure amippp
AmiTCP:bin/ifconfig amippp $amipppiplocal $amipppipremote

; Add route to this host
AmiTCP:bin/route add $amipppiplocal localhost

; Add route to the default gateway
; If the gateway address is not the same as $amipppipremote you will
; have to use something like this (193.170.136.1 is MY default gateway
; address and will NOT work for you! Ask your provider for it.).
AmiTCP:bin/route add default 193.170.136.1

; If the gateway is the same as $amipppipremote use this instead of the
; above:
;AmiTCP:bin/route add default $amipppipremote

setenv HOSTNAME `AmiTCP:bin/hostname`
Assign TCP: Exists > NIL:
IF Warn
  Mount TCP: from AmiTCP:devs/Inet-Mountlist
EndIf
```

1.19 Italian Docs

Italian docs are available from Aminet!
Just have a look at the docs/hyper dir there.

Many thanks must go to Francesco Mancuso who translated it.

1.20 AmiTCP 4.3 Config

AmiTCP 4.3 configuration

When setting up AmiTCP choose "Dynamic PPP Dialup" as Configuration
Style. You can enter whatever you want for MTU, Provider Phonenumber,
Serial Settings etc, since all that stuff is configed with AmiPPP,
it will not matter.

This is what "Config AmiTCP" showed when I installed it:

---------------------------- cut --------------------------

Your Dynamic PPP DialUp configuration is:
Interface: ppp
IP Address: <dynamic>
UseBootP: NO
Dynamic Name Servers: NO
MTU: 1500
Phone number: 1234567
TCP header compression: AUTO
Additional options:

---------------------------- cut --------------------------

After you are done with "Config AmiTCP" edit 'db/autointerfaces' and add
the line:

amippp DEV=DEVS:amippp.device UNIT=0
ConfigFileName=ENV:Sana2/amippp.config
ConfigFileContents="v34serial.device 0 57600 0.0.0.0 7Wire UseODU Shared
MTU=1500"

NOTE: This must be on ONE line! Just like the others.
If you prefere to have amippp.device in devs:Networks use
"DEV=DEVS:Networks/amippp.device"

Note that it does not matter at all what you give to 'ConfigFileName'
and 'ConfigFileContents' since amippp will never read it. This is just
to keep AmiTCP happy. It reported "could not take device online" when
I left it out, so better leave it there.

Next you have to edit 'db/Provider.conf', change 'Interface' from 'ppp'
to 'amippp' and comment out that log in stuff, here is my
'db/Provider.conf':

------------------------------- cut -------------------------------

```
/* Provider Configuration Follows:
Name            Other
DialUp          1
Interface       amippp        /* CHANGE THIS FROM 'ppp' TO 'amippp' */
InterfaceConfig ""
NeedSerial      1
IPDynamic       1
IPAddr          0.0.0.0
DestIP
Gateway         193.170.136.1
Netmask
NSDynamic       0
UseBootP        0
MTU             1500
Phone           1234567
*/
/* The rest is the Dialer script for this provider */
options results signal on error

/* COMMENT THIS OUT, AmiPPP will log in for you.

Say "Entering Manual Console Mode."
Status "Please log in"
ManualConsole */

exit 0; /* Successful exit */

error: Say "Command on line" SIGL "returned" RC ":" SerScript.LASTERROR
Exit 10


------------------------------ cut --------------------

 NOTE: The gateway address given above is MY gateway address and will
       NOT work for you! Ask your provider for it.


 If you have set up everything propperly (AmiPPP and AmiTCP) you should
 now be able to go online. Click on "Start AmiTCP" to connect.
```

1.21 Shell Args

```
   Currently AmiPPP understands one cli argument: 'CONNECT'.
   If specified the device will be told to go online immediately.

   Example: 'AmiPPP CONNECT'
```

1.22 Index

```
               Index of database 1dc284a0-0
```

Documents

AmiPPP

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