

**1dc284a0-0**

Thomas Bickel

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# Chapter 1

## 1dc284a0-0

### 1.1 AmiPPP

AmiPPP 1.21

What is new

The easiest way to connect to the Internet

Introduction	Why I did it
Some Info	Infos and Requirements
Installation	How to install it
Configuration	How to config it
Shell Args	Shell Arguments
Bugs	Known Problems
Italian Docs	Available too
Legal Stuff	The legal stuff
Registration	How to register
The Author	How to get in touch
History	.

### 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 really easy to use, I simply entered my providers phonenummer 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 (completely 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 amipp.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 (amipp.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 "amipp.device" to devs:
- 2) Copy the other files to any place you want

Then configurate AmiTCP to use AmiPPP:

Add the following line to "AmiTCP:db/interfaces":  
amipp DEV=DEVS:amipp.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 "amipp", 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 amipp
```

---

```
AmitTCP:bin/ifconfig amipp $amippiplocal $amippipremote  
; Add route to this host  
AmitTCP:bin/route add $amippiplocal localhost
```

A more complete example is here.

```
For later versions of AmitTCP (e.g. 4.2) it is enough to change  
.def IFACE ppp0  
to  
.def IFACE amipp
```

For AmitTCP 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 AmitTCP 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 helpful 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 chosen here no data is received a requester will open and you have the choice 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 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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The DES encryption code was derived from libdes:

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md4.c -- Implementation of MD4 Message Digest Algorithm  
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md5.c -- the source code for MD5 routines  
RSA Data Security, Inc. MD5 Message-Digest Algorithm  
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## 1.13 Registration Form

AmiPPP Registration Form

~~~~~

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Country: \_\_\_\_\_

E-Mail-Address: \_\_\_\_\_

Computer Type: A \_\_00

Processor: 680\_\_

Kickstart Version: \_\_\_\_\_

Comment: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

Please send me the keyfile (please mark as appropriate)

- in uuencoded form to my E-Mail address
- on disk to my postal address

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

---

E-Mail:

tbickel@xpoint.at

Fido:

2:310/72.34

## 1.16 Known Bugs

- \* Please note that 8nl.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 before 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 possibility 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.
; $amippiplocal and $amippipremote 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 amipp $amippiplocal $amippipremote
```

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

```
; Configure amipp
AmiTCP:bin/ifconfig amipp $amippiplocal $amippipremote
```

```

; 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 prefer 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' */
InterfaceConf ""
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 properly (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

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