

1dc284a0-0

Thomas Bickel

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REVISION HISTORY

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Chapter 1

1dc284a0-0

1.1 AmiPPP

AmiPPP 1.1a

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

Bugs

Known Problems

Italian Docs

Available too

Legal Stuff

The legal stuff

Registration

How to register

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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 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 (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 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 (no CHAP yet, sorry) and is easy to use due to the fact that it is completely 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 recommended 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 configurate 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

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 dependent ↔ 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.

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.

Update

Update the values (only makes sense if online).

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.

Tone Dial

Will make AmiPPP use "ATDT" instead of "ATDP" to call your provider.

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.

1.12 Legal Stuff

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You acknowledge and agree that AmiPPP is a proprietary product of the author, protected by applicable copyright laws and international treaty provisions. You further acknowledge and agree that all rights, title, and interest in and to AmiPPP are and shall remain with the author.

AmiPPP may be used for a period of thirty (30) days on a trial basis to allow you to determine its suitability for your particular application. After this period you MUST register AmiPPP.

The keyfile that registered users will receive, must only be installed 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 any modifications. You are NOT allowed to add any files to the archive.

AmiPPP may be freely distributed via BBSs, InterNet/UseNet, software libraries such as Fred Fish's and Aminet@ CD-ROM, and other similar electronic channels.

Disk magazines and services that charge extra for file transfers may NOT distribute it without written permission by the developer(s)!

The author is in no way obligated to provide future versions of, or support for, AmiPPP.

In the event that you are in violation of this licence agreement, you agree and accept that the author may cancel your registration and any rights to use AmiPPP that you may have. In the case of a dispute over the licence agreement, you further agree and accept to fully reimburse the author for legal and other expenses resulting from the dispute, should the dispute be decided in favor of the author.

DISCLAIMER

AmiPPP is provided "as is", without warranty of any kind or fitness for a particular purpose, either expressed or implied, all of which are hereby explicitly disclaimed. The author only guarantees that AmiPPP will occupy disk space.

In no event shall the author be liable to you or anyone else for any damages, including any lost profits, lost savings or other incidental or consequential damages arising out of the use or inability to use this software.

gtlayout.library: Copyright (c) 1993-1995 by Olaf 'Olsen' Barthel
Freely distributable.

AmiPPP is mostly my own original work. However some parts of it are based on previous work by others. Here are the corresponding copyright notes:

The SLIP example SANA-2 device Copyright (c) by Commodore.

The TCP compression example code in Appendix A of RFC 1144 is Copyright (c) 1989 Regents of the University of California. All rights reserved.

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)

- 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 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  $\leftrightarrow$   
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 will be somewhat faster than the unregistered version.

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

## 1.17 Version History

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 device 0
```

```
; 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 $amippiplocal localhost
```

```
; Add route to the default gateway  
; If the gateway address is not the same as $amippipremote 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 $amippipremote use this instead of the  
; above:  
;AmiTCP:bin/route add default $amippipremote
```

```
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 dir there.

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