

PhoneWizard

COLLABORATORS

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Contents

1	PhoneWizard	1
1.1	main	1
1.2	introduction	2
1.3	requirements	3
1.4	installation	3
1.5	configuration	3
1.6	functions	5
1.7	extras	6
1.8	zyxel	7
1.9	history	7
1.10	future	8
1.11	author	8
1.12	copyright	9

Chapter 1

PhoneWizard

1.1 main

```
                `PhoneWizard`
=====

Answerphone software for voice modems!

This is the english documentation.

    Introduction
    What is it?

    Requirements
    What you need to use the PhoneWizard

    Installation
    What do I have to do to make it run?

    Configuration
    What do I have to do to make it work?

    Functions
    How to control the PhoneWizard

    Remote functions
    Actions you can do from the phone

    ZyXEL voice modes
    Voice mode overview from ZyXEL voice modems

    History
    Overview of all previous versions

    Future plans
    List of ideas for the next version

    Author
    How to contact the author
```

Copyright
Copyright, Disclaimer, Shareware

1.2 introduction

Welcome to the world of PhoneWizard!

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Did you ever ask yourself what the 'voice function' of your modem is for? The answer is 'PhoneWizard'! It turns your computer into an answerphone (with some extras).

The package includes two english greeting messages. You can find lots of german greeting messages in the aminet at the same location

.

Yes, there are some features if you use your computer as an answerphone that you won't find on standard answerphones...

- All voice texts will be played and recorded in digital quality. (DDD) :^)
- Anytime PhoneWizard answers a call, it can play a different (randomly selected) greeting message.
- You can browse and archive the recorded calls comfortable in the PhoneWizard window.
- You can browse your calls from a phone, using the touch tone recognition of your modem.

Additionally, there will be more features (which are not implemented, yet):

- A message can be stored by the PhoneWizard and people who know the according password number can play it from a phone.
- Amazingly, the PhoneWizard itself can call you if it has recorded a call!
- Finally, PhoneWizard can call a number and send a message. (If someone does not have an answerphone. Well, this guy is out of date anyway) ;^)

There are two different versions of the PhoneWizard:

- a) The unregistered version:
Only 2 calls will be recorded. All following callers can listen to the greeting message, but then the modem will hang up.
- b) The registered version:
This version can record unlimited number of incoming calls.
Additionally, there are some extra features available. (see above)

(To get a registered version,
read the conditions
)

1.3 requirements

Requirements:

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- An Amiga with Kickstart 2.0 (V37) or better
- gtlayout.library V32 or better (included in the archive)
- xpkmaster.library V2 or better (included in the archive)
- A voice modem
(currently only ZyXEL voice modems (U1496, Omni, Elite, etc.) are supported! If you have a different voice modem, contact me
!

With your help, PhoneWizard could support it...)

1.4 installation

Installation

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- Copy the xpkmaster.library and the gtlayout.library to LIBS:
- Move the PhoneWizard drawer wherever you want to have it.

That's all.

1.5 configuration

Configuration

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PhoneWizard will be configured by tooltypes only:

- SCANDEV=<MODEM|LINE|FILE>
Selects the record device for manually recording messages. This will be checked if you push the Record button.

-> MODEM: Records from the modem micro. (Please read your modem documentation how to attach a micro)

-> LINE: Records from the line. (infact, that's the same as the 'MODEM' setting, except that the signal is weaker)

-> FILE: (default) Pops up a file requester from where you can select your soundfile that will be read. Supported are the most common file formats like ZVD (ZyXELVoiceData file format), IFF8SVX (standard amiga sound file format), VOC, WAV, SUN and MAC formats.

The destination file will be stored in the Texts-drawer and its voice data will be resampled to 9600 samples per second. (Remember, your modem has been built to be hooked on the line and has not the quality of a CD player!)

- SCANTYPE=<ADPCM2|ADPCM4>
This selects the recording quality, when recording from the modem. This will be checked if you manually record a message with the Record button and anytime an incoming call will be recorded. Until now, only

ADPCM2
(default) and
ADPCM4
are supported.

Warning: ADPCM4 is not available with some configurations! (see below)

- PLAYDEV=<MODEM|LINE|AMIGA>
Selects the play device for manually playing messages. This will be checked if you push the Play button.
-> MODEM: The message will be played by the modem speaker.
-> LINE: The message will be played to the line.
-> AMIGA: (default) The message will be played by your Amiga.
- TEMPFILE=<pathAndFilename>
Sets the tempfile which is needed when playing selected texts by the Amiga. Default setting: T:PhoneWizard.tmp
- PLAYIFF8=<pathAndFilename><switches>
Sets the external player. The Player has to play IFF8SVX files.
Default setting: Plugins/xPlay QUIET GUI
- CONVIFF8=<pathAndFilename><switches>
Sets the external converter that converts soundfiles to IFF8SVX format.
Default setting: Plugins/SampleZap -q -g
- CONVZVD2=<pathAndFilename><switches>
Sets the external converter that converts soundfiles to ZVD-adpcm2 format. Default setting: Plugins/SampleZap -q -g -r9600 -z2
- CONVZVD4=<pathAndFilename><switches>
Sets the external converter that converts soundfiles to ZVD-adpcm4 format. Default setting: Plugins/SampleZap -q -g -r9600 -z4
- RINGS=3
Selects the number of rings, where the phone answer machine will be activated. (1..9)
- AUTOSTART=TRUE
The Start button will be pressed automaticly after starting the program.
- DEVICE=serial.device
Selects the serial device name.
- UNIT=0
Selects the serial device unit.
- FLOWCON=RTSCTS
Switches to RTS/CTS flow control. (default is xon/xoff flow control)

Warning: RTS/CTS flow control is not available with some

configurations! (see below)

- BPS=38400
Selects the data transfer rate to your modem. (default is 38400 bps)

Warning: not all rates are available with some configurations!
(see below)

PhoneWizard has been tested with:

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- serial.device, Zyxxel U1496E+ (firmware V6.11A)
ToolTypes: default
- serial.device, Zyxxel U1496E+ (firmware V6.16)
ToolTypes: default
- serial.device, Zyxxel U1496E+ (firmware V6.16)
ToolTypes:
FLOWCON=RTSCTS
- squirrelserial.device, Zyxxel U1496E+ (firmware V6.16)
ToolTypes:
DEVICE=squirrelserial.device
BPS=76800
FLOWCON=RTSCTS
RECORDTYPE=ADPCM4

Notes:

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- With the internal serial port, transfer rates above 19200 bps (which are required for adpcm3/4) are not reliable. So you will need an additional serial port for your Amiga to use these modes. (The ZyXEL voice modems supply also the adpcm2r/3r/3p/3pr/4r compression modes, which try to resync after transfer errors. So maybe it is possible to use these modes with the internal serial port. But this is not supported by PhoneWizard, yet. Maybe in the next release.)
- With some serial devices (e.g. squirrelserial.device, hyperCOM1.device, etc.) only a connection with RTS/CTS is reliable. Old U1496 with firmware below V6.13 (which do not support RTS/CTS voice transfer) will not work with these devices!
- You will have to set the BPS rate to 38400 or above (even with ADPCM2). With ADPCM4, the BPS rate needs to be 57600 or better. (This is because next to the voice data, additional flow control has to be transferred)

1.6 functions

Functions:

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After starting the PhoneWizard, you will see the main GUI.

- The Answer texts list shows all available answer texts.
- The Received messages list shows all messages that have been received.
- With the Play gadget you can play the actually selected answer text or the actually selected message. (The Play to cycle gadget selects the output device that will be used)
- The Record gadget creates a new answer text in the list. (The Record from cycle gadget selects the input device that will be used)
- With the Select gadget, you can select an answer text, that will be played if a phone call has been detected. If you select more than one text, the PhoneWizard will get one of the selected texts (randomly).
- The Delete gadget deletes the actually selected answer text or the actually selected received message.
- The Label input gadget shows the name of the actually selected answer text or the actually selected received message. If you modify the name and press RETURN, the name will be changed.
- The Start gadget activates the answerphone. All incoming calls with 3 or more rings (see the RINGS tooltype) will be detected. The modem will connect in voice mode, one of the selected answer texts will be played and the call will be recorded.
- The Stop button deactivates the answerphone.

1.7 extras

Remote functions:

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Until now, only one remote function is implemented:

- Remote call browsing:
Add the tooltype rcCalls=<number> to activate this feature.

The <number> is your password for the remote access. It can consist of the following characters: 0123456789*#

(use only a short password, because your modem may fail to recognize the number and you could have to enter it again)

Enter your password at the phone while the PhoneWizard is playing its greeting message. You will hear a beep after the the PhoneWizard has accepted your password. Then you can listen to all incoming calls. At the end you will hear one long beep.

1.8 zyxel

ZyXEL voice modes:

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The ZyXEL modems support different voice digitization schemes. One uses the advanced CELP (Code Excited Linear Prediction) algorithm to achieve near-phone-quality voice at 9.6 kbps speech data rate, the other schemes use the ADPCM (Adaptive Delta Pulse Code Modulation) algorithm.

Scheme	Data Rate	
CELP	9600 bps	(not supported on old U1496 models)
ADPCM2	19200 bps	
ADPCM2r	19200 bps	(not on U1496 with firmware less than V6.10)
ADPCM3	28800 bps	
ADPCM3r	28800 bps	(not on U1496 with firmware less than V6.10)
ADPCM3p	30700 bps	(not on U1496 with firmware less than V6.13)
ADPCM3pr	30700 bps	(not on U1496 with firmware less than V6.13)
ADPCM4	38400 bps	(not on U1496 with firmware less than V6.13)
ADPCM4r	38400 bps	(not on U1496 with firmware less than V6.13)

Notes:

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- On U1496 with firmware less than V6.11 there is only a poor resync
- On U1496 with firmware less than V6.12 the adpcm quality is worse
- On U1496 with firmware less than V6.13 there is no RTS/CTS handshaking
- On U1496 with firmware less than V6.14 there are some bugs with adpcm

Hint:

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- Upgrade your ZyXEL U1496 firmware to V6.14 or better to achive best results with the PhoneWizard!

1.9 history

History:

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V1.0: [12.02.1997] First public release.

- Thanks to Christian Buchner for his sanctus to continue programming on the plugin xPlay. By the way, your code is horrible, Christian! ;^)
- Thanks to Michael Cramer for some sound format loading code that was used in the xConv plugin.
- Thanks to Olaf Barthel for creating the gtlayout.library
- Thanks to Thomas Götz and Marc Heuler who gave me the inspiration to create PhoneWizard.
- Known bugs: The xConv plugin might crash on exotic sound files. If you discover such a file, please let me know.

1.10 future

Future plans:

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- Realtime player for ADPCM files
(until now, you have to wait for conversion)
- Support ADPCM3
(for medium quality recordings)
- Support ADPCM2r, ADPCM3r, ADPCM3p, ADPCM3pr and ADPCM4r
(for reliable transfer with the internal serial port)
- Localisation
(until now, all texts are in english)
- Enhanced GUI
(iconify gadget, resizeable window, preferences GUI, commodity)
- More remote functions
(remote control, delivery, infobox, callback)
- Support non-ZyXEL voice modems
- pOS version (no Windows version so far, sorry)

1.11 author

Contacting the author:

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E-mail:

starfox@incubus.franken.de (prefered)
starfox@cow.mayn.de (backup)

(Try another e-mail address or standard mail if you get no response!)

WWW support page:

<http://www.amigasupport.com/starfox>

aminet location:

The actual version of PhoneWizard should be located in comm/misc.
Also, take a look at the interesting german answerphone texts, which can
be found at the same location. (phonetexts1.lha, phonetexts2.lha, ...)

Voice:

(0931)16139

Attention! The number could change in future!

And my phoneWizard could answer your call ;^)

(By the way... Never trust an answerphone! Your call could be lost somehow

after you have spoken to such a thing. The owner of the room could have changed... The charwomen could stumble over a cable... The answerphone could be a computer program on a computer with an operating system without memory protection...)

```

Matthias Bock          _____ '=oo='          _ //
Mähderweg 16          /      ~ ( _ )          \X/
97225 Zellingen      /|_ ____|. | ` Thank you, Amiga...
Germany              * ll"   ll

```

1.12 copyright

Copyright & Disclaimer:

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This software is shareware. The unregistered version may be freely copied if no modifications are done with the entire drawer! Any commercial distribution is strictly forbidden. There is no warranty or other guarantee of fitness of this software for any purpose. It is provided solely "as is".

If you like it, please register by sending 20 DM or \$15 US (or the same amount in your currency).

Notes:

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- The registered version includes a keyfile that enables all features in this or newer version for you!
- Please add your email address if you have one. (speeds up transfer)
- If you want to send cheques from outside of germany, you have to add 10 DM (\$7 US) for bank transfer fees! (So better do not use cheques!)
- Inside of Germany, you can transfer the share to my Giro Konto. But first get in Contact with
 me
 to get my KontoNr and BLZ
 and to tell me your address!

Do not forget to
 read the registration address
 !