

Packages YAPS and YAPSGUI - Sending of SMS Short Messages Version 4.0.0-r60785-testing

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October 14, 2022

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1. Documentation For Package YAPS

1.1. OPT_YAPS - Sending Of SMS Short Messages

1.1.1. Introduction

With YAPS SMS messages can be sent via an ISDN card or a modem with the fli4l router and depending on the provider lower costs arise as if sending SMS with a mobile phone. In addition, the typing of an SMS on the PC keyboard is more comfortable.

This package adapts the OPT_YAPS package by Ralf Dausend to fli4l 3.x. It is based on the Linux program “yaps” by Ulrich Dessauer and was originally developed by Stefan Rupprecht. Ralf Dausend has expanded it and wrote the original version of the manual.

1.1.2. Preconditions

YAPS requires a fli4l router with an ISDN card or a modem. YAPS is configured via the file `config/yaps.txt`. The file `/etc/yaps.rc` required by YAPS is created by the script `rc500.yaps` when booting the router.

Important: *YAPS does not work over DSL or Internet! YAPS needs an ISDN card or a modem in any case!*

1.1.3. Mobile Phone Networks

For Germany the following services for sending SMS messages are set:

- D1 with the prefixes 0151, 0160, 0161, 0170, 0171, 0175
- D2 with the prefixes 0152, 0162, 0172, 0173, 0174
- E-Plus with the prefixes 0163, 0177, 0178

Viag Intercom or O2 offered no SMS gateway for a long time and now have only a poorly functioning and slow gateway (as of 2005), so O2 is configured in a way that D2 is used as the gateway. The prefixes are 0176 and 0179.

Peter Egli enhanced YAPS for Switzerland with the following services: Swisscom, Orange, Sunrise and Tele2 (Swisscom). Thank you, Peter!

YAPS is configured without international prefixes so users from Germany and Switzerland may reach their respective networks directly without further configuration. If someone from Germany wants to send over the Swiss network or vice versa, in `rc500.yaps` the relevant international prefixes have to be added for the respective networks.

1.1.4. Costs

Since the costs in the mobile sector are in constant motion and also depend very much on the chosen rates each user must decide for himself what the service of OPT_YAPS is worth and what it costs.

Important: *Some time ago, several users have reported, that the connection to the SMS gateway is kept for several hours when using YAPS. Since this is a connection to a mobile phone number this can be very expensive. The fault was most likely the SMS gateway and not with YAPS, yet the people had to pay a high phone bill. Therefore, the Note: When using YAPS always check that after sending the SMS the connection to the gateway was closed. Sending usually takes three to four seconds, in exceptional cases, ten to twenty seconds.*

Use YAPS at your own risk! The FLI4L team can and will not pay for any expenses incurred!

1.1.5. Configuration

OPT_YAPS If this is set to “yes”, the package will be activated.

YAPS_USE_CID This variable must be set to “True” or “False”. If “True” is specified, the Caller-ID will be activated when sending an SMS (see next option). The Caller ID is the originating address which is displayed on the phone that receives the SMS. Unfortunately, this seems to work only with D2, D1 always display the phone number (MSN) from which the SMS was sent. With E-Plus the number of the SMS center is displayed.

YAPS_CID This variable contains the sender’s number, without spaces or other separators.

YAPS_USE_SIG This variable must be set to “True” or “False”. If “True” is selected, a signature is appended to the SMS (see next option).

YAPS_SIG The signature to be used, please respect the max. length of 160 characters per SMS note. If the signature is 50 characters long, only 110 characters are left for the SMS. If a text message (including signature) is longer than 160 characters, YAPS will split it into several SMS of max 160 characters. So if you, for example, create a text 500 characters long, YAPS simply sends 4 SMS messages, one after the other.

YAPS_CBC If you want to use a call-by-call provider, you may enter its prefix here. If your provider charges per minute, a CbC provider is useful if you have one that charges per second, because a text message is normally sent in three to five seconds.

YAPS_MSN Here the MSN of your own telephone line must be entered (without prefix). This field must not be empty, but setting a wrong number is not a problem since the telephone switch of your provider will simply set one of the available MSNs for the connection.

YAPS_VERBOSE This variable sets YAPS’s debug level, choose a value of “1” to “4”. The debug level specifies how many information YAPS returns. Normally “1” should suffice here. If something does not work, you can set a higher value for debugging.

YAPS_LOG This variable contains the path and name of the log file created by YAPS. The default is /var/log/yaps.log. The directory /var/log is situated in the ramdisk usually

and is therefore only available as long as the router is running, i.e. after a reboot it is gone. If you want to keep the log file you may, i.e. specify a file on the hard disk.

1.1.6. Operation

YAPS may be executed on the console or via Telnet/SSH:

```
yaps <number> "<text>"
```

i.e. `yaps 0171xxx "Hello, how are you?"`.

If you execute YAPS without any parameters, a little help on possible parameters is displayed.

There is also an input interface for fli4l's httpd. This was originally written by Felix Eckhofer and may be activated with the variable `OPT_YAPSGUI`. It is documented in the next section.

2. Documentation For Package YAPSGUI

2.1. OPT_YAPSGUI - Web-GUI For YAPS

2.1.1. Introduction

This package offers a Web-GUI for operating YAPS. It is based on the OPT package “YAPSGUI” originally developed by Felix Eckhofer (email: felix@fli4l.de). It requires the use of the Mini HTTPD from the httpd package.

2.1.2. User Interface

If the package is installed (see below), it may be accessed via the Web interface of the fli4l. Simply pick an entry for “sender” and “recipient” from the phone book (see below) or enter a number in the text box below manually, create a message, click on submit (only once!) and hope all went well (wait for confirmation ...). The drop-down menu “Debuglevel” controls the verbosity level of ”YAPS“, with “0” for the lowest and “4” for the highest verbosity.

With the checkbox “Receipt” you can determine whether an acknowledgment should be obtained from the network operator for proper delivering of the message. This unfortunately does not work with all providers.

2.1.3. Phonebooks

For ease of use YAPSGUI provides a phone book, both for senders and recipients. This may also be managed on a per-user base. Whether, and if so, what phone book files are used is specified in the configuration (see below). The structure of these files corresponds to the structure of the file `/etc/phonebook` from Imonc:

```
Number1=Name1
Number2=Name2
...
```

In names all characters except for the equal-sign “=” are allowed. An example:

```
0170123456=John Do-Don't
0162666555=Sabine v. und zu der Thann
```

Important: *If the phone book files are edited outside of the web interface it must be made sure that the last line ends with a hard return (Enter)!*

2.1.4. Configuration

OPT_YAPSGUI If this is set to “yes” the package will be activated. Precondition is **OPT_YAPS** is set to “yes” and “yaps” is thus installed.

YAPSGUI_DEBUG The default setting for the dropdown menu “Debuglevel”. Possible values are between “0” and “4”. “0” is predefined as the default value.

YAPSGUI_SENDER_TB_COMMON Here you can specify where the general sender phonebook is stored which is available to all users. This should be a place that survives a reboot of the router, such as a Hard drive, a USB flash drive or a CompactFlash card, since the entries otherwise will vanish after the restart! By default `/data/sndbook-common` is specified.

YAPSGUI_RECIPIENT_TB_COMMON Here you can specify where the general receiver phonebook is stored which is available to all users. This should be a place that survives a reboot of the router, such as a Hard drive, a USB flash drive or a CompactFlash card, since the entries otherwise will vanish after the restart! By default `/data/rcvbook-common` is specified.

YAPSGUI_USER_N The number of users who will have their own phone books. All other users automatically use the general phone book. By default, “0” is set, so only one telephone directory exists for anyone to use.

YAPSGUI_USER_x Set the user name of x’tth user here for whom an own phonebook exists. The user name must be absolutely identical with that from the configuration of the Mini-HTTPD (`config/httpd.txt`), in particular case sensitive!

YAPSGUI_SENDER_TB_x This indicates where the sender phone book for the appropriate user should to be stored. To the selection of the storage location the same applies as for the general sender-directory (see the description of the variable **YAPSGUI_SENDER_TB_COMMON** above). By default, `/data/sndbook-userx` is used, the “x” is replaced by the index number of the user.

YAPSGUI_SENDER_STD_x This variable controls which sender entry is selected when starting the web interface, the count starts at one. If “0” is specified (the default value), no sender is initially selected.

YAPSGUI_RECIPIENT_TB_x Here you can specify where the recipient phone book for the corresponding users should be stored. To select the storage location, the same applies as for the general recipient phone book (see above). By default, `/data/rcvbook-userx` is used, the “x” is replaced by the index number of the user.

YAPSGUI_RECIPIENT_STD_x This variable controls which recipient entry is selected when starting the web interface, the count starts at one. If “0” is specified (the default value), no recipient is initially selected.

2.1.5. Access Rights

The permission level for the httpd can be assigned separately for sending and editing of the phone books. In **HTTPD_RIGHTS_N** “sms:send” resp. “sms:edittb” has to be specified in this case. A user with the rights “all” may, of course, do everything :)

A. Appendix For Package YAPS

A.1. Credits

The fli4l-Team explicitly wishes to thank Ralf Dausend (email: dausend-ralf@gmx.de) who created this package and maintained it for a some time. Without his constructive work and cooperation it would not have been possible to adapt the package in a suitable way for newer fli4l versions.

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B. Appendix For Package YAPSGUI

B.1. Credits

The fli4l-Team explicitly wishes to thank Felix Eckhofer (email: felix@fli4l.de) who created this package and maintained it for a some time. Without his constructive work and cooperation it would not have been possible to adapt the package in a suitable way for newer fli4l versions.

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