Operating Manual for Programming Software

BIRDY SLIM

TPLpagers v3.03.3

Version 1.0.3

Document history

Edition	Date	Description	Parts revised
V1.0.0	03/12/2015	Document creation based on TPL pagers v3.03.2	all
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Version naming convention : Vx.y.z
z is incremented for a minor change like a syntax error, adding a detail, a change in format, and are draft versions before official version
y is incremented for official released versions
x is incremented for a major change like adding a chapter, a new function

NOTE

TPL Systèmes reserves the right to modify this manual and its contents without any previous notice. Although no effort has been spared to make this manual as accurate as possible, it is not a contractual document.

TPL Systèmes
ZAE du Périgord Noir
24200 SARLAT - France
Tél : +33 5 53 31 55 00
E-mail : support@tplsystemes.com
http://www.tplsystemes.com

Table of Contents

1 Abbreviations

AC	Alternative Current
ACK	Acknowledgement
AM / PM	Ante meridiem / Post meridiem
BIRDY	Name of **TPL Systèmes** pager
BIRDY SLIM	Pager with POCSAG transmission capability
dBm	Decibel referenced to 1 milliwatt, power unit
LCD	Liquid Crystal Display
LED	Light Emitting Diod
OS	Operating System (of computer)
PC	Personal Computer
POCSAG	Post Office Code Standardization Advisory Group, data transmission asynchronous protocol (used for pagers)
RAM	Random Access Memory
RIC	Radio Identity Code
RSSI	Received Signal Strength Indicator
SOS	Emergency and rescue signal
UART	Universal Asynchronous Receiver Transmitter
USB	Universal Serial Bus
UTC	Universal Time Coordinated

Although programming software is the same for all models of BIRDY pagers, this handbook applies to **BIRDY SLIM** pager more specifically. Some parameters may or may not exist in other **BIRDY** models.

2 General overview

This document explains how to use the **BIRDY** pagers programming software.

In order to program a **BIRDY** (POCSAG) pager, it is necessary to be equipped with :
- the **BIRDY** programming (and charging) cradle
- the cradle mini USB-USB cable
- the **TPL Systèmes** programming software for pagers (named **TPLpagers**)

BIRDY SLIM pager can be programmed when placed on its programming cradle and cradle is linked to computer with USB programming cable.
The programming cradle is also used as a charging cradle. A power adaptor is provided to link USB programming cable to power sector.

2.1 How to plug
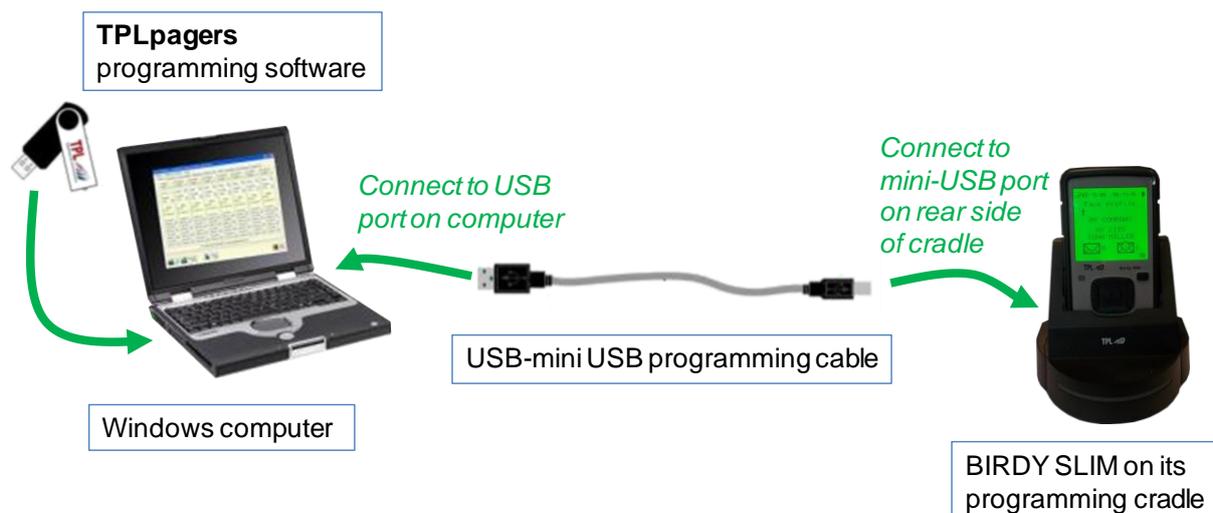
2.2 Minimum required computer configuration

The computer has to be equipped with a Windows (XP, Seven, 8, 8.1, 10, 32 or 64 bits) operating system as well as an USB port.

3 Software setup

In order to install **BIRDY** programming software, please insert the CD-ROM or USB key provided with the equipment and run the file "**setup_TPLpagers_x.xx.exe**".
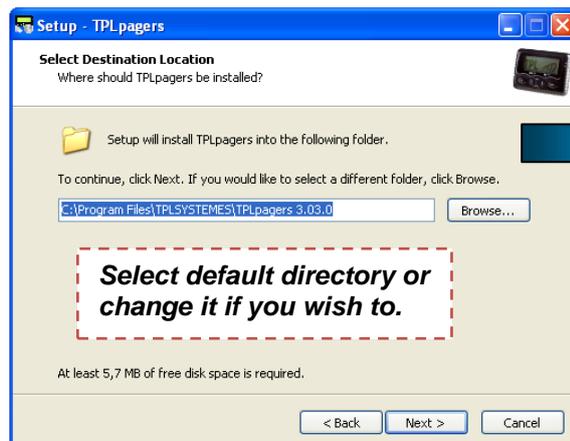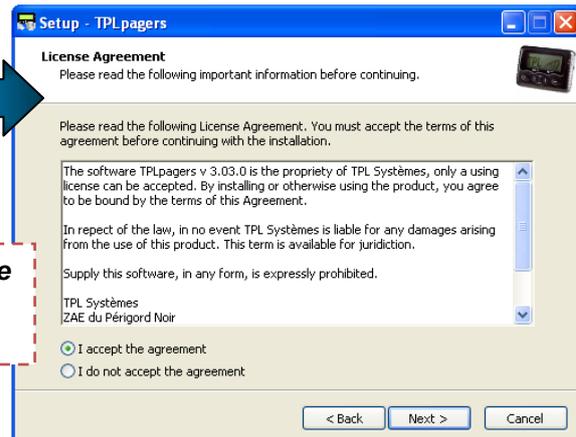
Do not plug the cradle to the computer at first install.

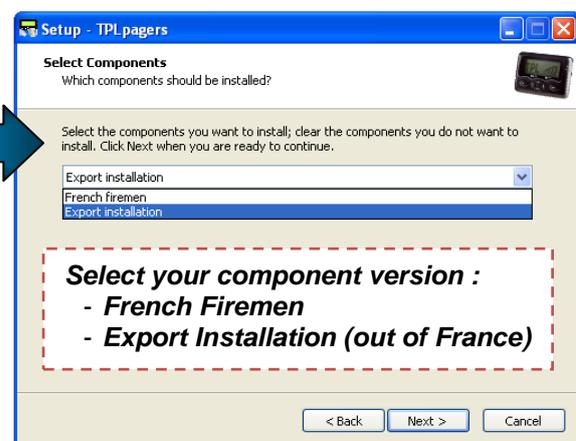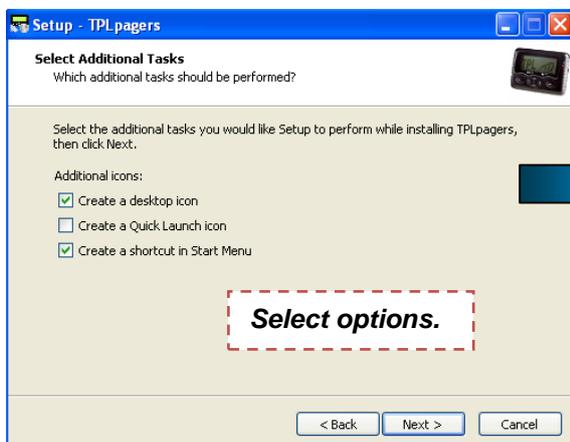| Nom ▲	Type
Driver	Dossier de fichiers
autorun	Informations de configuration
Installation	Document texte
setup_TPLpagers_x.xx	Application
setupTPLPagers	Icône

List of files of TPLpagers setup.

Welcome to the TPLpagers Setup Wizard

This will install TPLpagers 3.03.0 on your computer.

It is recommended that you close all other applications before continuing.

Click Next to continue, or Cancel to exit Setup.

Run setup_TPLpagers_x.xx.exe and follow setup wizard instructions.

License Agreement
Please read the following important information before continuing.

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

The software TPLpagers v 3.03.0 is the propriety of TPL Systèmes, only a using license can be accepted. By installing or otherwise using the product, you agree to be bound by the terms of this Agreement.

In repect of the law, in no event TPL Systèmes is liable for any damages arising from the use of this product. This term is available for juridiction.

Supply this software, in any form, is expressly prohibited.

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◉ I accept the agreement
○ I do not accept the agreement

Select Destination Location
Where should TPLpagers be installed?

Setup will install TPLpagers into the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

C:\Program Files\TPLSYSTEMES\TPLpagers 3.03.0

At least 5,7 MB of free disk space is required.

Select default directory or change it if you wish to.

Select Components
Which components should be installed?

Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

Export installation
French firemen
Export installation

Select your component version :
- *French Firemen*
- *Export Installation (out of France)*

Select Additional Tasks
Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing TPLpagers, then click Next.

Additional icons:
☑ Create a desktop icon
☐ Create a Quick Launch icon
☑ Create a shortcut in Start Menu

Select options.

Ready to Install
Setup is now ready to begin installing TPLpagers on your computer.

Click Install to continue with the installation, or click Back if you want to review or change any settings.

Destination location:
    C:\Program Files\TPLSYSTEMES\TPLpagers 3.03.0

Setup type:
    Export installation

Selected components:
    TPLpagers
    Export

Additional tasks:
    Additional icons:
        Create a desktop icon

Check out installation parameters and validate.

If USB drivers are not already installed on your PC, wizard offers to install them automatically.

Follow instructions.

Depending on driver version, you may have a warning pop-up that driver has not been validated by Windows. Continue setup.

Drivers have been successfully installed. You may launch TPLpagers.

Plug the **BIRDY SLIM** on the cradle and link cradle to computer with USB programming cable.

4 Software overview

TPLpagers software can be launched by a double click on icon

Home window appears.
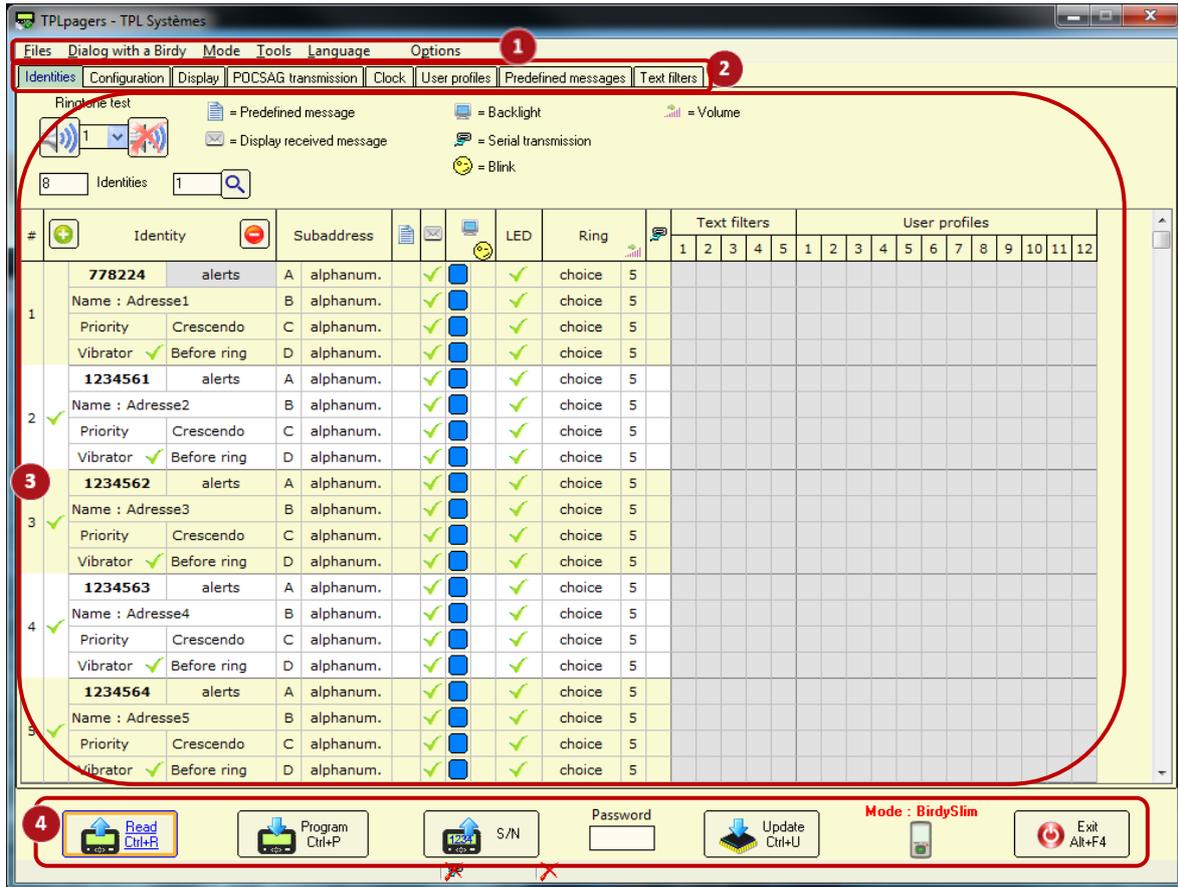
TPLpagers home window

It is divided in 4 zones :

- ① The scrolling menu bar (top)

- ② The programming parameters tabs

- ③ The window itself related to the current tab, with various parameters
- ④ The tool bar
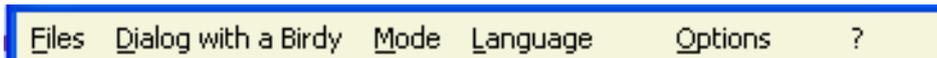
4.1 Scrolling menus

Scrolling menus offer different functions :

"Files" menu

Open	Ctrl+O	Open an existing programming file	CTRL+O
Save		Save opened file under same name	
Save as ...	Ctrl+S	Save current programming file under a new file name	CTRL+S
Print		Create a text file with all programming parameters	
Set as default customization		Define current parameters as default configuration	
Compare 2 customizations		Compare parameters between 2 configurations	
Exit	Alt+F4	Exit and close software	ALT+F4

"Dialog with a Birdy" menu

Read	Ctrl+R	Read a BIRDY configuration	CTRL+R
Program	Ctrl+P	Write the current configuration into a BIRDY	CTRL+P
Update the software with a new file	Ctrl+U	Update BIRDY software with a new file	CTRL+U
Update the software		Update BIRDY software with a selected file	
Default customization		Program BIRDY with default parameters	
Read the serial number		Read BIRDY serial number	
Read the history of received messages		Read the last 60 received messages	
Read the history of sent messages		Read the last 20 sent messages	
Read the history of events		Read the last 200 received events	
Protection of customization		Protect current configuration with password (see below)	
Communication port		Select communication port	

Password protection :

Enter a password (4 characters).
Select whether you wish protection to be active when you :
- *Read a programming*
- *Write a programming*
- *Or both*

To set a password :
- Go to menu *Dialog with a Birdy | Protection of customization*
- Enter your password
- Select your option (Read or Write)
- Click on OK
  - o Change is written to **BIRDY** memory and you get an information message
- You must then enter password in bottom tool bar to read or write **BIRDY** programming

To remove a password
- Enter password in bottom tool bar
- Go to menu *Dialog with a Birdy | Protection of customization*
- Erase your former password and leave blank fields
- Click on OK
  - o Change is written to **BIRDY** memory and you get an information message
- Password protection has been removed

"Mode" menu

OR
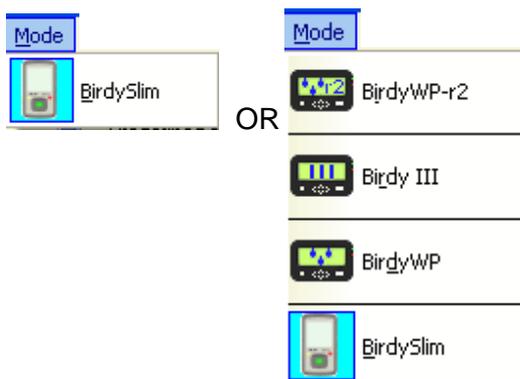
Display possible BIRDY modes of your programming software, so you may change easily.

Current mode is over blue background.
Refer to menu Options below for more details.

Thanks to check you are in right mode : BIRDY SLIM

"Language" mode

	Français	Switch software language to French
	English	Switch software language to English, current language is in gray
	Deutsch	Switch software language to German
	Deutsch (Deutschschweiz)	Switch software language to German (for Switzerland)
	Dutch	Switch software language to Dutch
	Nederlands (België)	Switch software language to Flemish

"Options" mode
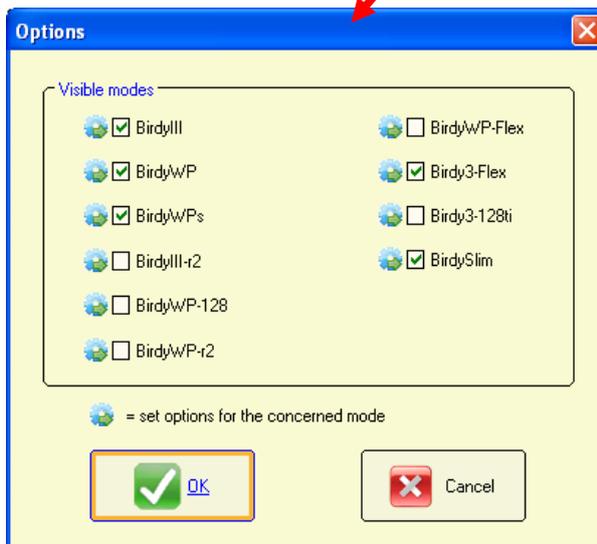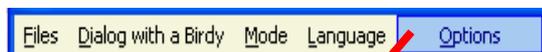
Click on Options menu to make appear a window to select BIRDY modes.
Check the BIRDY modes you are likely to use. Then in Mode menu, select the BIRDY mode corresponding to your current use (see above)
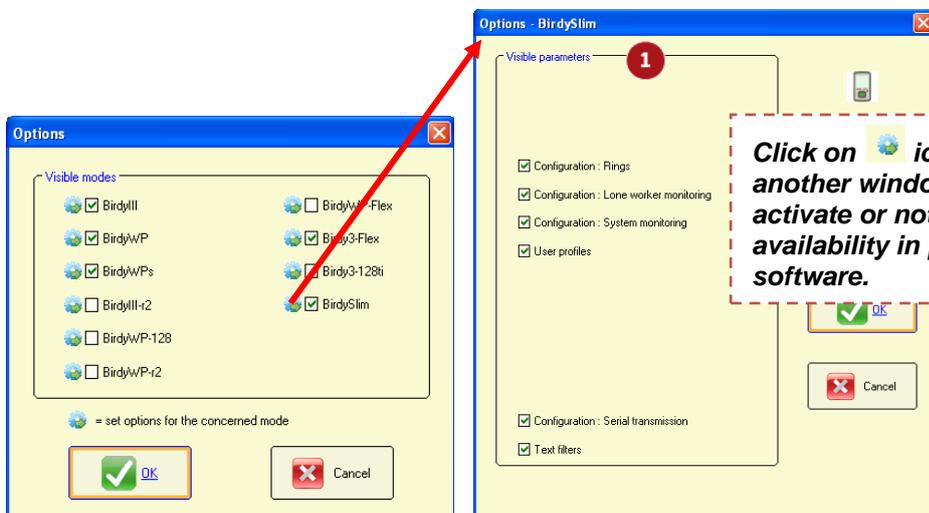
Click on 🔧 *icon to make appear another window where you can activate or not some parameters availability in programming software.*

1 **Visible parameters**

Check box to make parameter available in the programming software.
If corresponding box is not checked, parameter will not be visible or not available.

Configuration : Rings	If checked, *Rings* tab is available under *Configuration* tab (see **paragraph 6.2.6**)
Configuration : Lone worker monitoring	If checked, *Lone worker monitoring* is available. Parameters can be defined in *POCSAG transmission	SOS/Lone worker monitoring* tab (dead man and loss of verticality features) (see **paragraph 6.4.6)**
Configuration : System Monitoring	If checked, *System Monitoring* tab is available under *Configuration* tab (see **paragraph 6.2.7**)
User profiles	If checked, *User Profiles* tab is available (see **paragraph 6.6**)
Configuration : Serial transmission	If checked, *Serial transmission* feature is available in *Identities* tab and *Configuration	Serial transmission of received messages* tab (see **paragraph 6.1 & 6.2.5)**
Text filters	Text filters (see **paragraph 6.8**)

"Help / ?" menu

About …	Displays information about programming software version
System information	Displays information about your computer (processor, RAM, OS)

4.2 Menu buttons

ICONS	DESCRIPTION	SHORTCUTS
Read Ctrl+R	Read all programming parameters from the pager. Wait for success window. *Information — Reading memory is successfully completed.* ✓ OK	**Ctrl + R**
Program Ctrl+P	Write all programming parameters to the pager. Wait for success window. *Information — Writing memory is successfully completed.* ✓ OK	**Ctrl + P**
S/N	Read and display the BIRDY serial number. *Information — Device serial number : 0513303042171* ✓ OK	
Password	Enter password here *(if password protection has been activated)*	
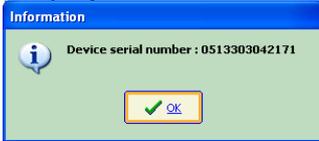
⬇ Update Ctrl+U	Update the BIRDY firmware	**Ctrl + U**
Mode : BirdySlim	Information logo : the software is in BIRDY SLIM mode (example)	
Mode : BirdyWP	Information logo : the software is in BIRDY WP mode (example)	
⏻ Exit Alt+F4	Exit the program	**Alt + F4**
🔊	In programming mode, this button enables to listen to the ringtone associated to the selected RIC or a user-defined tone.	
🔇	Stop the ringtone playing in programming mode.	
🔻	Shows that parameter value is not compliant.	

5 Read / Program a BIRDY

5.1 Read a BIRDY programming

- Plug the **BIRDY** on the cradle as explained in **paragraph 2.1**.
- Launch **TPLpagers** programming software.
- Communication port is detected automatically.
  - o In case of conflict with another active port using same driver, you may need to select communication port.
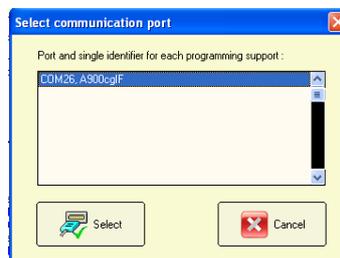
- Click on [🗁 Read Ctrl+R] or select menu *Dialog with a Birdy | Read* or type CTRL+R to launch the **BIRDY** memory reading
  - o **BIRDY** displays "programming mode". **TPLpagers** tabs are shaded in gray.
- Wait for success window

Information

Reading memory is successfully completed.

✓ OK

- **BIRDY** parameters have been loaded into **TPLpagers** software

5.2 Program a BIRDY

- Plug the **BIRDY** on the cradle as explained in **paragraph 2.1**.
- Launch **TPLpagers** programming software.
- Define all desired parameters in **TPLpagers** software. When parameters are OK :
- Click on [Program Ctrl+P] or select menu *Dialog with a Birdy | Program* or type *CTRL+P* to launch the **BIRDY** memory writing
    o **BIRDY** displays "programming mode". **TPLpager**s tabs are shaded in gray.
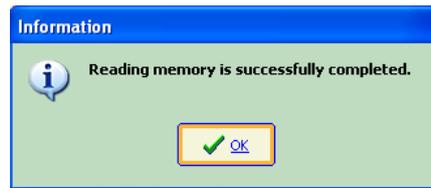- Wait for success window.

Information

Writing memory is successfully completed.

✓ OK
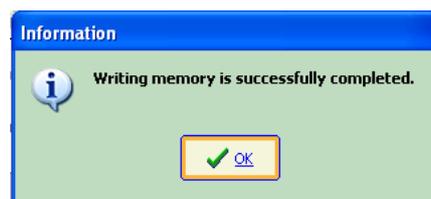
- **TPLpagers** parameters have been loaded into **BIRDY**.
- Eject **BIRDY** from its programming cradle. **BIRDY** starts automatically with new parameters.

5.3 Open / Save a programming file

BIRDY programming files are in **.birdySlim.rev2** extension.

- Select menu *Files | Open* or type *CTRL+O* to open an existing file.
- A window pops up enabling you to browse your directories and select a file.
- Wait for success window.

- Select menu *Files | Save as* or type *CTRL+S* to save current parameters into a file.
- A window pops up enabling you to select directory and file name of backup file.
- Wait for success window.

6 Programming parameters

6.1 Identities parameters

This window enables to define up to 128 RIC with different profiles (ring tone, vibrator, etc…).

① Ringtone test

Offers user to listen to ringtone.

Select ringtone number (up to 21 tones) and click on ⏻ to play ringtone. Click on ⏻ to stop play back.

② Icons legend

③ Identities

Shows how many identities are available for the pager. At least one identity must be defined. Enter number of identities you wish to create.
You may create up to 128 identities.

④ Identity selection

This field enables you to go to a specific identity among the list.

Enter identity number and click on 🔍 to reach it. It is displayed on tab first line.

⑤ Identity addition/deletion

Enables to add or delete an identity.

Click on ⊕ to add an identity at end of list.

Click on ⊖ to delete the last identity.

6 Identity

Enables to activate and define identity.

Activation column	Click on identity number to activate identity. Icon ✓ is displayed.
RIC code	Enter RIC code for the address.
Function mode	Select the function mode of the RIC address. Click on field to display drop-down list..

	Alerts	Use this address as receiving address of POCSAG alarm messages. The "ALERTS" selection integrates the functions "MESSAGES" and "SERVICES" as native.
	Messages	Use this address as receiving address of POCSAG messages other than alarm messages. Messages are displayed with a specific ringtone and display.
	Services	Use this address as receiving address for service messages (for instance : remote deprogramming, summer time, etc ..)

Name	Name must be 12 characters max. When you define names, names are displayed as default in Identities BIRDY menu
Priority	This option, when activated on an identity, enables to play the BIRDY ring tone even if it is in silent mode or when the quiet period is activated. Click on field to activate the feature ✓.
Crescendo	This feature enables to activate the crescendo mode in the ring tone. Click on field to activate the feature ✓.
Vibrator	Validates vibrator upon receiving the identity code. Click on field to activate the feature ✓.
Before ring	Validates the vibrator feature before the ringtone upon receiving the identity code. Click on field to activate the feature ✓.

7 Sub-addresses

Enables to define sub-addresses format and parameters, in case address is used to receive alert messages.

You may define up to 4 sub-addresses per identity with different format and parameters.

Principle is the same for all sub-addresses : A(00), B(01), C(10), and D(11).

Validate the message format which will be received on sub-address by selecting it in drop-down list.

Alphanum	Format of the alphanumeric type message. If selected, field is in transparent.
Numéric	Format of the numeric/digital type message. If selected, field is in red.
Tone only	Format of the message type "tone only" (without attached message). If selected, field is in yellow.
Disabled	Inhibit the sub-address (the pager will no longer receive messages on this sub-address). If selected, field is in gray.

In order to receive legible messages, select the right option according to your POCSAG transmitter.

The following fields apply to the relevant sub-address of the RIC code.

8 **Pre-defined message**

This feature enables to display a pre-defined message on BIRDY screen when you set off the sub-address.

Click on the field and select pre-defined message (or leave it blank) from drop-down list.
You may create up to 64 messages.
Pre-defined message is selected from its number.

Pre-defined messages are defined in *Predefined Message* tab (see **paragraph 6.7**)

9 **Display received message**

Enables to display or not the message sent by the transmitter.

Click on field to activate the feature ✓ .

10 **Screen backlight**

Enables to program the screen backlight color and the behavior on the sub-address.

Screen gets backlighted in the selected colour upon receipt of a message and the backlight blinked if desired.

Click on first field to select backlight colour from drop-down list.
Possible colours are : none, blue, red, green, white, cyan, pink, orange

Click on second field to activate the blinking.

11 **Flash LED**

Enables to choose to activate or not the BIRDY flash LED when receiving an alert.

Click on field to activate the feature ✓

12 **Rings**

Selects a specific ring tone for this sub-address.

Silence	Pager does not ring upon receipt of a message on the sub-address.
Choice	User has the ability to select the ringtone from the BIRDY menu.
1 to 21	Selects a tone among one of the 21 user-defined tones (see *Configuration | Rings* tab to define tones in **paragraph 6.2.6**)
Volume	Select ringtone volume from 1 to 5

13 **Serial transmission**

This feature enables to transmit the received message to the USB port of the charging cradle, when receiving it on the sub-address. It enables to monitor messages panels.

Click on field to activate the feature ✓ .

14 **Text filters**

This feature enables to apply a text filter to the messages received on a sub-address. It enables to change the behaviour of the alert if the text is found in the received message.

*Text filters are defined in the Text filters tab (see **paragraph 6.8**).*
You may define up to 5 filters.

Click on field to activate the filter corresponding to its number ✓

15 **User profiles**

Enables to apply a user-defined profile to the sub-address.

User profiles are defined in the User profiles tab (see **paragraph 6.6***). You may create up to 12 profiles.*

Click on field to activate the profile corresponding to its number ✔

6.2 Configuration parameters

6.2.1 General settings

This window enables to program the different parameters related to your alert network.

1 **Alert duration**

Enter the duration (in seconds) of the ring tone when receiving a programmed identity code.
Ring tone duration can range from 1 to 99 seconds

Uninterrupted If checked, the pager will ring permanently upon receipt of a message.

This duration is then assigned to each address.

2 **Crescendo duration**

Selects the crescendo duration (in seconds) upon receipt of a programmed RIC code.

Duration of crescendo ring tone can range from 1 to 99s.

This duration applies to RIC addresses for which the crescendo is active. The crescendo feature enables to have a ring tone starting at a low level and going progressively to a louder level.

③ Vibrator duration before ring

Selects the duration of the vibrator before the ring tone when receiving a programmed identity code.

Vibrator duration can range from 1 to 59 seconds

This duration has to be lower than the alert duration from more than 1 second. The validation of this feature can be made in the "Identities" tab for each identity.

④ Reminder unread message

Enables to have a sound (2 beeps) to indicate the receipt of an unread message

Display message	When the reminder of unread message has been validated, this enables to display the message previously received on each reminder but also to play the ringtone as if it were a new message. Message header line is in reverse video. *Check the box to activate the feature*
Periodicity	*Inactive* : no reminder sound in case of unread message *active / 15s* : BIRDY pager will beep twice every 15s *active / 30s* : BIRDY pager will beep twice every 30s *active / 1min* : BIRDY pager will beep twice every minute *active / 2min* : BIRDY pager will beep twice every 2 minutes
Number	Selects the number of reminder for unread messages. *10 to 250* : selection of number by steps of 10. *uninterrupted* : reminder beep will stop after all messages have been read
Permanent light signal	When receiving an unread message, enables to have the flash LED blinking and a light blinking on the display. *Check the box to activate the feature*

Once all messages have been read, BIRDY pager stops beeping.

⑤ Duplicates messages

Prevents BIRDY pager from ringing several times when receiving the same message (for instance, when the alert network uses POCSAG repeaters)

Inhibition	*Inactive* : The pager rings each time it receives a message *Active / 1min* **:** The pager will not take into account the repeated messages, 1mn after receiving the first one. *Active / 2min* **:** The pager will not take into account the repeated messages, 2mn after receiving the first one. *etc … up to 6 min*
With identity management	If checked, duplicated message can be received on different pager addresses. If message is sent to same address, it is not received If not checked, duplicated message cannot be received twice whatever the reception address.
= new message	Indicates the saving method of repeated messages (with same text). *If checked*, repeated message will be saved as a new message, within the memory. *If not checked*, repeated message will be saved by overwriting the previous message
Authorized errors	Enables to authorize or not character errors in the message in order to have it considered as a repeated message. *0 error :* a repeated message is a message exactly same as previous one (errors included). *4 / 8 / 12/ 16 / 20 errors* : enables to authorize a message as repeated even if it contains some errors compared to the previous message. This errors number is set from 4 to 20 errors.

6 **Use LED of the support**

Validates the use of the LEDs on the charging cradle. The LEDs blink when BIRDY receives a message while being on cradle.

Check the box to activate this feature.

With user menu   Validates the use of the charger LED through the BIRDY menu.
                    If checked, feature is available in BIRDY menu.

7 **Keyboard locking**

Validates feature to lock and unlock the keyboard.

If checked, keyboard locks after delay to return to stand-by mode (if it has been activated).

See **8** *in* **paragraph 6.3**

With user menu   Validates the possibility to have a menu to lock / unlock the keyboard.
                    If checked, feature is available in BIRDY menu.
                    If not checked, feature is not available in menu.

8 **Miscellaneous**

Last 10 messages not erasable	If checked, prevents erase of last 10 received messages
Unread messages erasable	If checked, unread messages can be erased.
Message considered read with first keyboard action	If checked, the first key press on keyboard removes the message from unread messages list
Signalling the presence of the pager on the support	If checked, activates charging cradle output relay when pager is set on cradle (see **paragraph 8**)
Invisible identities by user	If checked, user cannot see the identity used and cannot edit identity.
Keyboard sound	If checked, each press on a key plays a tone. If not checked, key press remains soundless.

9 **Low battery alert**

Validates a sound indication when battery level reaches a low level and battery needs to be charged.

Rechargeable battery	If checked, a rechargeable battery can be used in the pager without affecting the validity of the battery level information. If not checked, and a rechargeable battery is used in the pager, the battery level information displayed may not be the accurate one (due to voltage differences between rechargeable and alkaline batteries).
Periodicity	*1min / 75min* : Time-lag for the repetition of the low battery warning. *Disabled* : no warning sound is played
Time period of validation	Enables to define a time range in the day when low battery warning is active. This enables to prevent any warning during the night (for instance).

10 **Quiet period**

Enables to set a quiet period during which the pager will play no sound on a message receipt.

Ring inhibition   If checked, enables to program a time range in the day when quiet period is active.

11 **POCSAG**

Reverse polarity   If checked, reverse polarity of the POCSAG frames is used in your alert network.

Speed	Defines POCSAG frames dialog speed Possible values are : 512, 1200, 2400 bauds
Radio frequency	Enter POCSAG carrier frequency (in MHz). Frequency must be a multiple of 2.5KHz (frequency channel step). Frequency can range from 136MHz to 999MHz.
Channel spacing	Select channel spacing for your POCSAG system. Possible values are 12.5KHz, 20KHz, 25KHz
Rejection of errors	Enables to manage the receipt of messages likely to contain characters in error *Disabled* : all messages are received *1 to 20 errors, or 25% - 33% - 50% of errors* : when error detection reaches defined number or percentage of errors, message is rejected.
View the errors	If checked, characters likely to be erroneous are displayed in reverse video on a received alert.
No empty message	If checked, empty messages (with no character at all) are not taken into account as alert message.

12 Use relay of the support

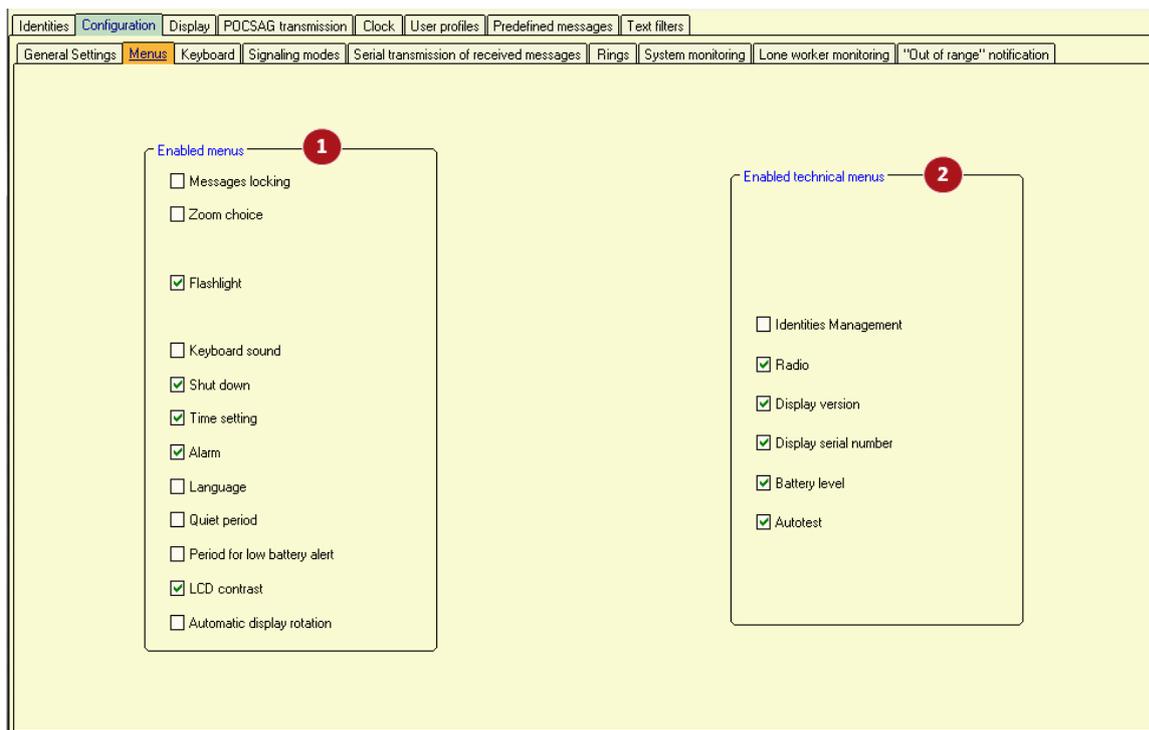Validates the use of dry contact relay present on the charger cradle (Refer to **paragraph 8**)

Check the box to active the feature

Closures number	Number of closings of the contact relay upon receipt of one of the programmed RICs Number can range from 1 to 255.
Closing time	Closing time of relay in seconds. Time can range from 1 to 255s.
Opening time	Opening time of relay in seconds. Time can range from 1 to 255s.

6.2.2 Menus

This window enables to select which features will be available for user in BIRDY menu.

❶ Enabled menus

Messages locking	If checked, offers menu to lock one or several messages in order not to delete them through function "delete all"
Zoom choice	If checked, offers menu to choose the size of characters in a message
Flash light	If checked, offers menu to lit on the BIRDY flash LED
Keyboard sound	If checked, offers feature to activate keyboard sound
Shut down	If checked, offers menu to switch off the pager. If menu is not present, pager can only be switched off by removing battery.
Time setting	If checked, offers menu enabling to change time on the pager.
Alarm	If checked, offers menu enabling to program an alarm clock.
Language	If checked, offers menu enabling to modify the pager language.
Quiet period	If checked, offers menu enabling to program a time period during which the BIRDY pager will not emit any sound upon receipt of a message. BIRDY pager will save the received message(s) but no sound indication will be sent during the programmed time period.
Period for low battery alert	If checked, offers menu enabling to define the time period during which the pager will take into account the low battery warning.
LCD contrast	If checked, offers a menu to define LCD contrast.

❷ Enabled technical menus

Selects the sub-menus which will be present in the technical menu.

Identities management	If checked, offers the *Identities* menu in BIRDY. It enables to change RIC and disable an address.
Radio	If checked, offers menu to : - define RX frequency and baud rate - define TX frequency of the first recipient, baud rate and recipient RIC code and sub-address - display POCSAG RSSI level from emitter
Display version	If checked, offers to know which software version is currently used
Display serial number	If checked, offers to check the pager serial number
Battery level	If checked, offers to check the battery voltage
Autotest	If checked, offers to test the LCD display, colour LEDs, the vibrator buzzer, the flash LED, the keyboard keys, the charger.

6.2.3 Keyboard
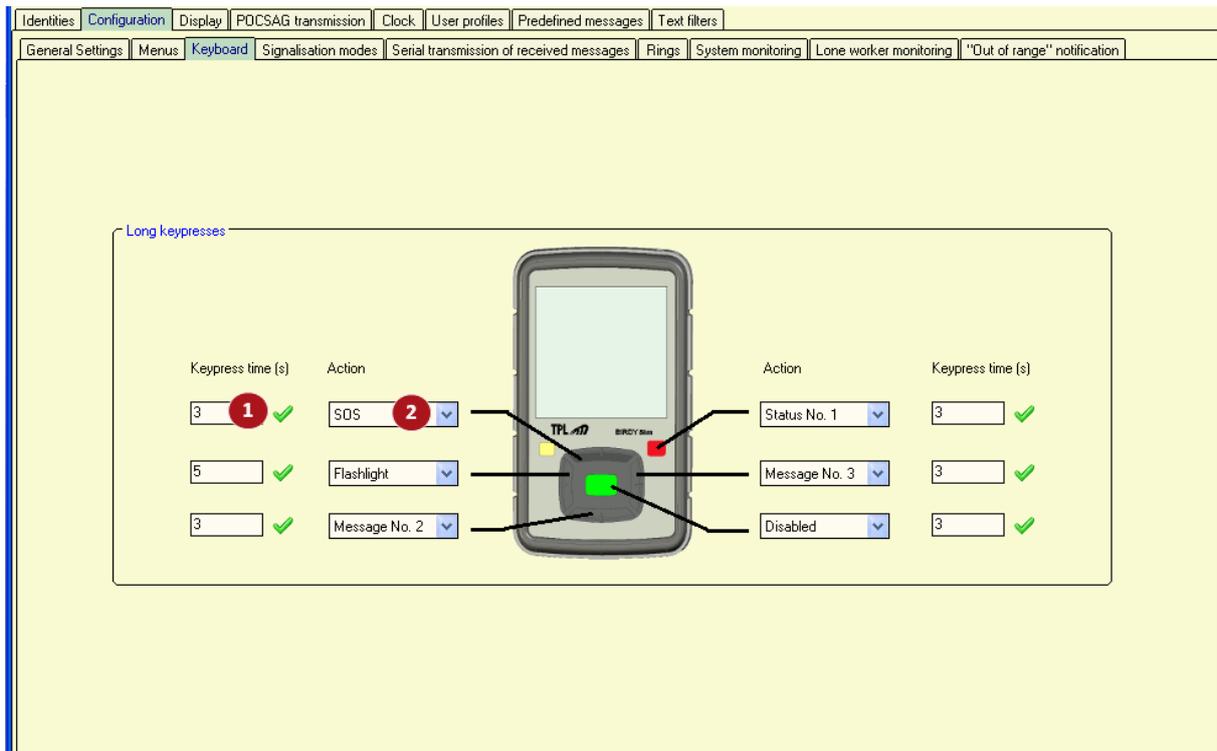
For each key from the BIRDY (menu key, arrow keys and enter key), you may link an automatic action to a long-press on the key.

① Keypress time (s)

Enter time for long-press detection on the key.
Value can range from 2 to 10s.

② Action

Select action linked to long-press on the key, from drop-down list

Disabled	No action on the key
Flashlight	Lit on the BIRDY flash light on a long-press
SOS	Transmits the SOS message defined in **paragraph 6.4.6**
Message n°X	Transmits the message n°X defined in **paragraph 6.4.5**
Status n°X	Transmits the status n°X defined in **paragraph 6.4.3**

6.2.4 Signalisation modes
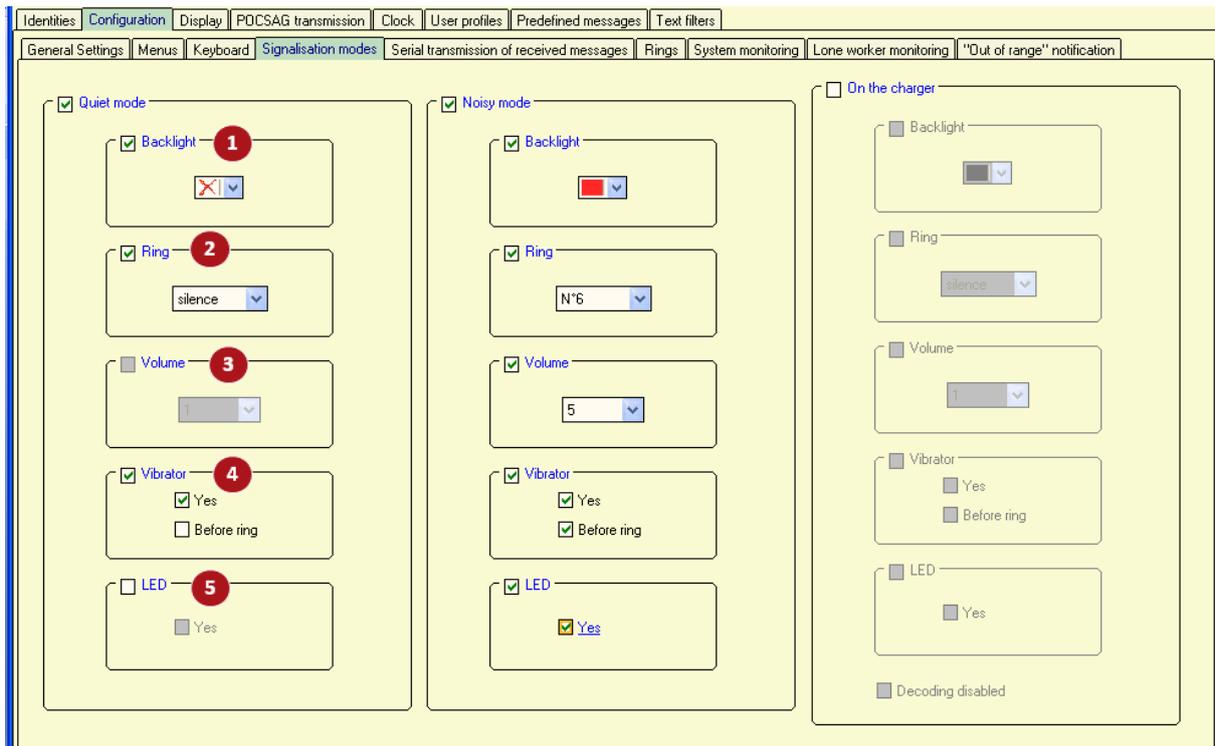
This window enables to define some peculiar modes (related to sound and display) other than User Profiles feature.

If validated these modes are available in *Ring Mode* menu in **BIRDY**. User can select between them.

You can define 3 different modes :
- Quiet mode
- Noisy mode
- On the charger mode, which will be automatically applied when **BIRDY** is on charger

Choices about sound and display signalling are the same for each mode. They will be applied on a message receipt.

① Backlight

Select screen backlight colour for the mode.
Select colour from drop-down list among : none, blue, red, green white, cyan, pink, orange.

② Ring

Select a specific ring tone for the mode

Silence	Pager does not ring upon receipt of a message in this mode
Choice	User has the ability to select the ringtone from the BIRDY menu.
1 to 21	Selects a tone among one of the 21 user-defined tones (see *Configuration | Rings* tab to define tones)
Volume	Select ringtone volume from 1 to 5

③ Volume

Select ringtone volume from 1 to 5

4 **Vibrator**

Select if vibrator is active or not in this mode

Yes If checked, vibrator is active

Before ring If checked, vibrator is active before the ring is played

5 **LED**

Select if flash LED on BIRDY is flashing in this mode

Yes If checked, flash LED is active

6.2.5 Serial transmission of received messages

This window is available only if you checked it in **BIRDY** mode options.

This tab enables to configure the serial output and the text format.

Serial interface can be used from charging cradle USB connector and a USB-serial converter.

1 **Minimum size of messages**

This corresponds to the minimum number of characters that need to be sent in order to have the message re-transmitted by the serial interface

Size ranges from 1 to 255. If 0 is set, all sizes are possible.

2 **UART settings**

These parameters have to be consistent with those of the application to which the transmission will be made. It is mandatory to have the same values in both applications.

Speed	9600 or 19200 bauds
Datas	8 bits or 7 bits
Stop bits	1 or 2
Parity	No parity, even, or odd

③ Content of the transmission

Enables to format the message that will be re-transmitted**.**

Example **:**

<11:25 15.11.12 - 01A [HELLO] >\x0D\x0A

Start / End of transmission	Characters at the beginning and /or at the end of the transmission in order to mark out the beginning and/or the end of transmission.
Start / End of messages	One character at the beginning and/or end of the message in order to mark out the beginning and/or the end of the message.
Time / Date	Defines the position and the display of time and date in the transmission *Without* : No display of the date and time in the transmission content. *Start* : Date and time will be displayed at the beginning of the transmission *End* **:** Date and time will be displayed at the end of the transmission.
Identity & sub-address	Defines the position and the display of the transmission sub-address. *Without* **:** No indication of the sub-address in the transmission content. *Start* **:** Identity + sub-address is displayed at the beginning of the message. *End* **:** Identity + sub-address is displayed at the end of the message *+CR+LF* : enables the cursor to insert a line break after each sentence.
Control character	If needed, enables to insert ASCII characters in the transmission content.

SOH	STX	ENQ	ACK	HT	VT	CR	ESC
ETX	EOT	BEL	OS	LF	FF	NAK	

For instance, in the above example :

6.2.6 Rings

① Tone N°xx tab

Each one of the 21 possible tones is defined via a tab.
The specific tone played on receipt of a message is named "message" and has a dedicated tab.

② Default ring

If checked	Default ring is used for the tone under definition.
If not checked	User has the ability to define a specific tone (see below).

Ring definition

User can define up to 45 different notes with their respective height and length to compose the melody.

Note	Possible values are : C, C#, D, D#, E, F, F#, G, G#, A, A#, B, interval, end
Octave	Enables to separate 2 sounds of which fundamental frequency of one of them is the double of the frequency of the other one. Octaves range from 0 to 7.
Duration	Time during which a sound has to be maintained. Value can range from 1 to 255 (x10ms), ie from 10ms to 2.55s

Key legend

This icon is displayed on a ring tone number when the programming of this one contains errors.

This icon indicates that a standard ring tone has been set to the corresponding number.

This icon indicates that the ring tone has been modified by user on the corresponding number.

6.2.7 System monitoring

This function enables to send to the BIRDY a specific message on whatever RIC or sub-address.

If the message has not been received by the pager at the end of the programmed duration, the BIRDY will display a pre-defined 4-line message on its screen.

① Periodicity

Enables to define the period at which POCSAG message is sent by emitter.
Periodicity can range from 2 to 255min.
0min means function is disabled.

② POCSAG message

Enter POCSAG message sent by emitter and expected by pager.
You may enter your own message with available characters.

③ 4-lines pre-defined message

Enter 4-line message which BIRDY pager will display in case it does not receive the POCSAG message in ② after periodicity time in ①

6.2.8 Lone worker monitoring

① Activation time

Activation time is the time delay to let the BIRDY go into the dead man and/or loss of verticality function after function has been activated in BIRDY menu. After this activation delay has elapsed, BIRDY beeps twice and begins to count down detection time. Before the end of this activation time, user shall put the pager on the final used position (reference position).
Enter time delay between 20 and 255 seconds

② Dead man

If BIRDY remains motionless during this time period BIRDY detects a "dead man" and transmits "dead man" message (see **paragraph 6.4.6**)

Detection time   Enter detection time from 20 to 255 seconds.
                    A "zero" time value disables the function.

③ Lost verticality

BIRDY calculates its movement from a reference position (given by the two beeps and obtained after activation time. When BIRDY position differs from more than *Angle* during more than *Detection time* BIRDY transmits "lost verticality" message (see **paragraph 6.4.6**)

Detection time   Enter detection time from 20 to 255 seconds.
                    A "zero" time value disables the function.

Angle   Enter angle value from 30° to 70°

④ Dead man + lost verticality

If checked, BIRDY monitors both dead man and loss of verticality functions.

5 **Alert repetition (s)**

Enter time delay between alert messages transmissions.
Value can range from 10 to 300s

User must go to *Lone Worker* menu and select *Shut down* to send the end message (see **paragraph 6.4.6**) and stop alert transmission. As long as user has not shut down the alert, messages keep being sent. If the start message (dead man or man down message) was already sent, any key press from user will also send the end message.

6.2.9 Out of range notification

This feature enables to know if the pager is within the radio coverage area or not.
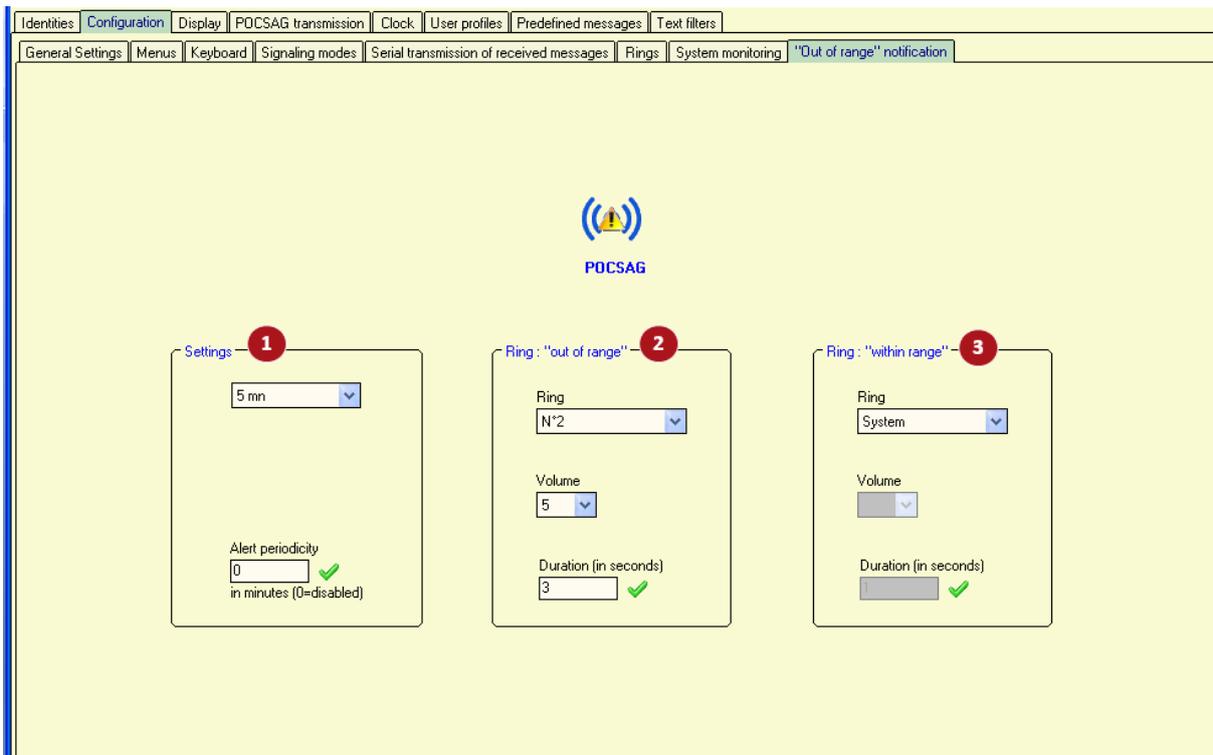
1 **Settings**

Select time period to check POCSAG signals.
Period can vary from 1 to 9min.
Disabled means function is not active.

Alert periodicity   Defines alert periodicity in case of loss of coverage has been detected.
Periodicity can range from 1 to 99min.
A 'zero' value means alert is signalled only once.

2 **Ring "out of range"**

Enables to select a specific ring in case of loss of radio coverage (loss of RF carrier).
Ring   Can be *System*, or one of the 21 user-defined tones.
Volume   Select ring volume from 1 to 5, in case of user-defined tone
Duration Select ring duration (in seconds), from 1 to 55s, in case of user-defined tone

3 Ring "within range"

Enables to select a specific ring when BIRDY gets under radio coverage again.

Ring   Can be *System*, or one of the 21 user-defined tones.
Volume   Select ring volume from 1 to 5, in case of user-defined tone
Duration   Select ring duration (in seconds), from 1 to 55s, in case of user-defined tone

6.3 Display

1 Start text

Enables to program a text which will be displayed when the BIRDY pager is switched on.
Text can be up to 2 lines of 16 characters each.

2 User name

Enables to program a text which will be present on the main screen of the BIRDY.
Text can be up to 16 characters.

3 Messages

Enables to receive a message with or without truncation at the end of the sentence.
Enables to display RSSI of the received message.

No hyphenation   If checked, all the words are entirely written without any truncation
Display RSSI   If checked, all messages display their RSSI value.

4 **Automatic display rotation**

Enables to activate screen display rotation when BIRDY is held vertically or horizontally.
If checked, screen display rotates automatically.

5 **Date/time format**

Selects date display type.

DD-MM	Displays the day first and then the month (DD-MM)
MM-DD	Displays the month first and then the day (MM-DD)
12-hour clock	If checked, displays time on 12h in AM/PM If not checked, displays time on 24h

6 **Standby display**

Energy saving mode	If checked, pager switches to power saving mode 5s (fixed delay) after it switched to standby mode. During those 5s BIRDY is able to display the clock and/or battery level (see below).
Clock	If checked, displays date and time in standby mode
Battery level	If checked, displays battery level in standby mode
User name	If checked, displays user name in standby mode. This feature is not possible in case energy saving mode is active.
Last unread message	If checked, displays the latest unread received message, in standby mode. This feature is not possible in case energy saving mode is active.

When in standby, if nothing has been selected, display is same as in energy saving mode (only" POCSAG antenna" and "ring" icons are on).

7 **Logo**

Enables to program a new logo visible at the pager boot-up.

Keep the original primary logo	If checked, original logo is displayed when pager boots up. If not checked, user can define a new logo. Click on "Change primary logo" to select image file. Logo must be a bitmap image file, in black and white, in 96 pixels wide and 72 pixels high.
Keep the original secondary logo	If checked, original logo is displayed when pager boots up. If not checked, user can define a new logo. Click on "Change secondary logo" to select image file. Logo must be a bitmap image file, in black and white, in 96 pixels wide and 48 pixels high.

8 **Delay return to standby**

Defines the time BIRDY takes to switch to standby mode.
Delay can range from 5 to 90s.
If user makes no action on BIRDY within 5s (for example), BIRDY goes to standby mode.

9 **Backlight**

Enables to select the actions that will turn on the BIRDY screen back-light

Keyboard action	If checked, screen backlight turns on when user presses a key.
Menu	If checked, menu is available to user.

10 **Lighting default color**

Enables to select default screen backlight colour on pager.

Select colour from drop-down list among : blue, red, green white, cyan, pink, orange.

11 **Lighting on the charger**

Enables to select screen backlight colour on pager when the pager is on the cradle and in standby mode.

Select with the cursors, and create your own shade.

12 **Language**

Enables to select the language that will be used into the BIRDY menu.

8 languages are possible : English, French, Spanish, German, Dutch, Danish, Italian, Slovenian, Swedish (only by BIRDY menu)

13 **Default zoom**

Enables to select the size of characters displayed within a message

Zoom can be x1, x2, or x3. User can modify the zoom if menu has been validated

14 **LCD contrast**

Enables to select the default contrast level on the LCD screen of the BIRDY.

Value range from 1 to 15 : 1 is the lowest level possible of contrast and 15 is the strongest. In order to always have a visible screen BIRDY updates the contrast according to the temperature and the battery voltage.

6.4 POCSAG transmission

These parameters refer to the TX possibilities available in the **BIRDY SLIM**.

6.4.1 Recipients

This window enables to define 5 recipients which **BIRDY** can send messages to.
Parameters are the same for all 5 recipients.
At least one recipient must be defined.

❶ Recipients

Enables to define the recipient

Name	Enter a name for the recipient. *Text can be up to 13 characters*
Identity	Enter RIC code of the identity for the recipient.
Sub-address	Select sub-address of the identity *Value can be A, B, C or D.*
Speed	Select data rate for POCSAG transmission by the BIRDY. *Value can be 512, 1200, or 2400 bauds*
Radio frequency	Enter frequency value (in MHz) for TX transmission *Value must be a multiple of 2.5KHz and range from 136 to 999MHz.*
Power	Select power level indicator for TX transmission. *Value can range from 1 to 19. Note that those levels do not equal power values in watts or dBm. 1 is lower level. 19 is higher level.*

6.4.2 General Settings

① Managing Recipients

Enables to select the recipient (see paragraph 6.4.1) for each type of message sent by the BIRDY.

Battery messages	Select recipient for low battery alert message
Charger messages	Select recipient for BIRDY on/off charger messages
ACK	Select recipient for acknowledgement messages
Status	Select recipient for status messages (see **paragraph 6.4.3**)
Messages	Select recipient for messages defined in **paragraph 6.4.5**
SOS	Select recipient for SOS messages
Lone worker monitoring	Select recipient for lone worker alert messages

② Automatic acknowledgement

Enter text message for ACK message sent to recipient selected in ① .
Automatic ACK is sent when BIRDY receives the message. It does not necessarily mean user has read it.
See **paragraph 6.4.4** for acknowledgements by user.

Text can be up to 40 characters.

③ Reiterations

Enables to reiterate messages transmission by the BIRDY

Number	Select number of re-transmissions.
	No : only one transmission
	1 : message is sent again once

2 : message is sent again twice
Period   Enter time period between two transmissions (time between the end of the first transmission and the start of the second transmission)
*Value can range from 1 to 99s*

④ Battery messages

Enables to define the message sent by the BIRDY in case of low battery alarm
Low battery   Select message to be sent in case of low battery detection by the BIRDY.
Value can be disabled, or one of the 10 message defined in **paragraph 6.4.5**

⑤ Charger messages

Enables to define the message sent by the BIRDY in case of BIRDY is put on the charger or off the charger
Placing on the charger   Select message to be sent in case BIRDY is put on its charger cradle.
Value can be disabled, or one of the 10 message defined in **paragraph 6.4.5**
Removing the charger   Select message to be sent in case BIRDY is removed from its charger cradle.
Value can be disabled, or one of the 10 message defined in **paragraph 6.4.5**

6.4.3 Status
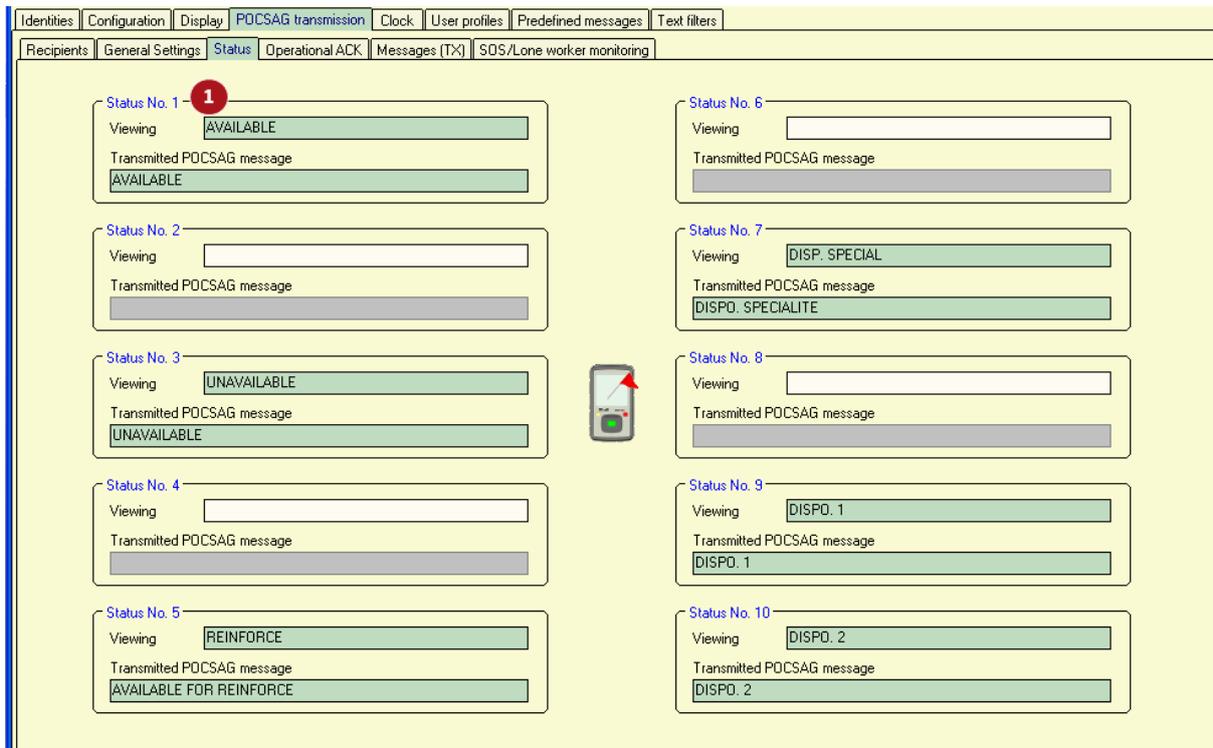
This window enables to define 10 status messages user can send from **BIRDY** menu.
Parameters are the same for all 10 statuses.

Birdy Slim   **Page**
Ref : Programming Software Manual   37/47
Edition 1.0.3

① **Status n°1**

Defines a status

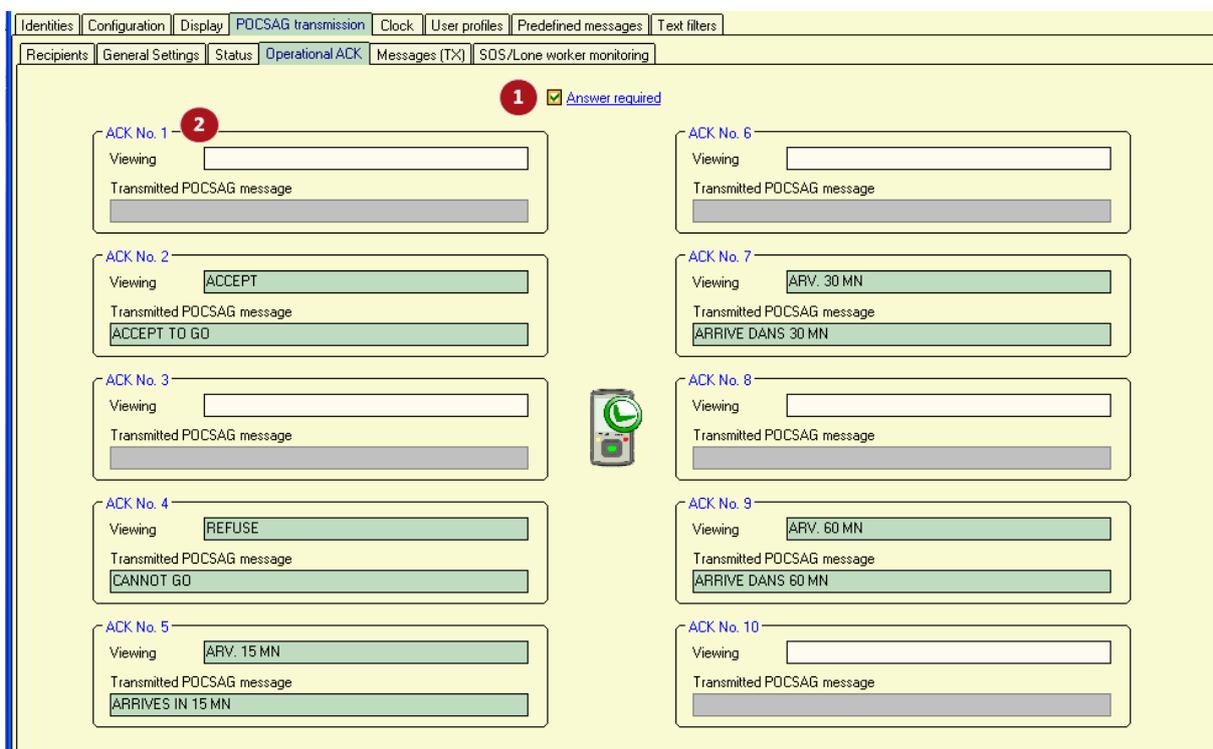|	
Viewing	Enter text message that will be displayed in BIRDY *Status* menu. Text can be up to 13 characters
Transmitted POCSAG message	Enter text message that will be sent to recipient defined in **paragraph 6.4.2** Text can be up to 26 characters.

When user selects a status in **BIRDY** menu, message is sent to status recipient.

6.4.4 Operational ACK

This window enables to define 10 ACK messages user can send from **BIRDY** menu.
Parameters are the same for all 10 ACK messages.
User can choose from ACK list which one to send on a message receipt.
ACK messages are sent to ACK recipient (see **paragraph 6.4.2**)
This operational ACK demands a user's action which proves user read the message.

① **Answer required**

If checked, user cannot exit a received message without sending an ACK message.
If not checked, user can exit message without sending an ACK message.

② **ACK N°1**

Defines an ACK message

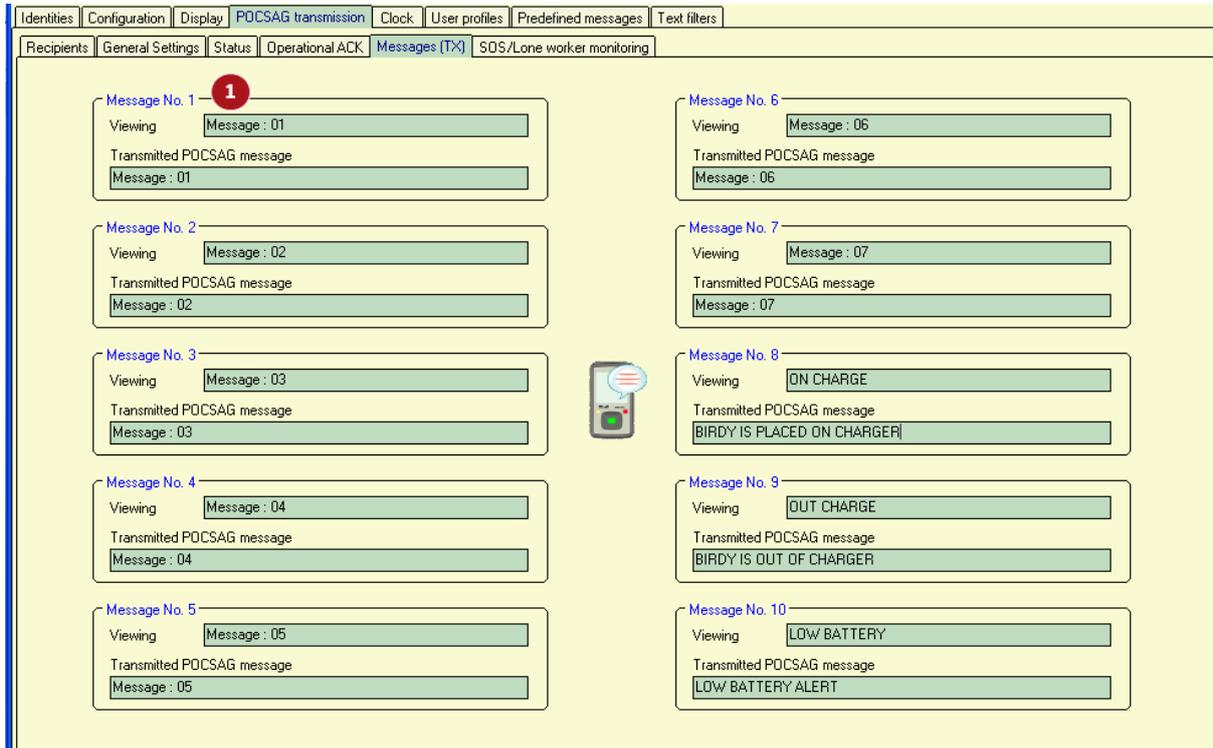|	
Viewing	Enter text message that will be displayed in BIRDY menu. Text can be up to 13 characters

Transmitted POCSAG message	Enter text message that will be sent to recipient defined in **paragraph 6.4.2** Text can be up to 26 characters.

When user receives a message they can select which ACK to send as an answer.

6.4.5 Messages (TX)

This window enables to define 10 miscellaneous messages.
Messages in case of low battery alert and on/off charger are defined here (see **paragraph 6.4.2).** They are more specifically defined in messages N°8, 9 and 10.
Recipient is defined in **paragraph 6.4.2**.

❶ **Message N°1**

Defines a message	
Viewing	Enter text message that will be displayed in BIRDY menu. Text can be up to 13 characters
Transmitted POCSAG message	Enter text message that will be sent to recipient defined in **paragraph 6.4.2** Text can be up to 26 characters.

User can access those messages in the **BIRDY** menu *Messages*, and then *Canned Messages*.

6.4.6 SOS/Lone worker monitoring

This window specifies the messages sent in case of SOS, dead man or man down alerts.
SOS alert can be activated by user with a special key (see **paragraph 6.2.3**).
Dead man and man down alerts can be activated by user from **BIRDY** menu *Lone Worker*.
All alerts demand a user's action to be stopped.

❶ SOS

Defines SOS messages and activation.

|	
Enabled	If checked, enables SOS message sending as an action (see ❷ in **paragraph 6.2.3**)
Soundless	If checked, SOS alert message sending will play no sound. If not checked, SOS alert is surrounded by a series of beeps and a red backlight flashing effect on screen
Start	Enter text message that will be sent on the SOS alert. Text can be up to 40 characters.
End	Enter text message that will be sent on end of SOS alert. Text can be up to 40 characters.

❷ Dead man

Start	Enter text message that will be sent on a "dead man" alert. Text can be up to 40 characters.

❸ Man down

Start	Enter text message that will be sent on a "man down" alert. Text can be up to 40 characters.

4 **End**

> *End* Enter text message that will be sent when user stops alert.
> Text can be up to 40 characters.

6.5 Clock
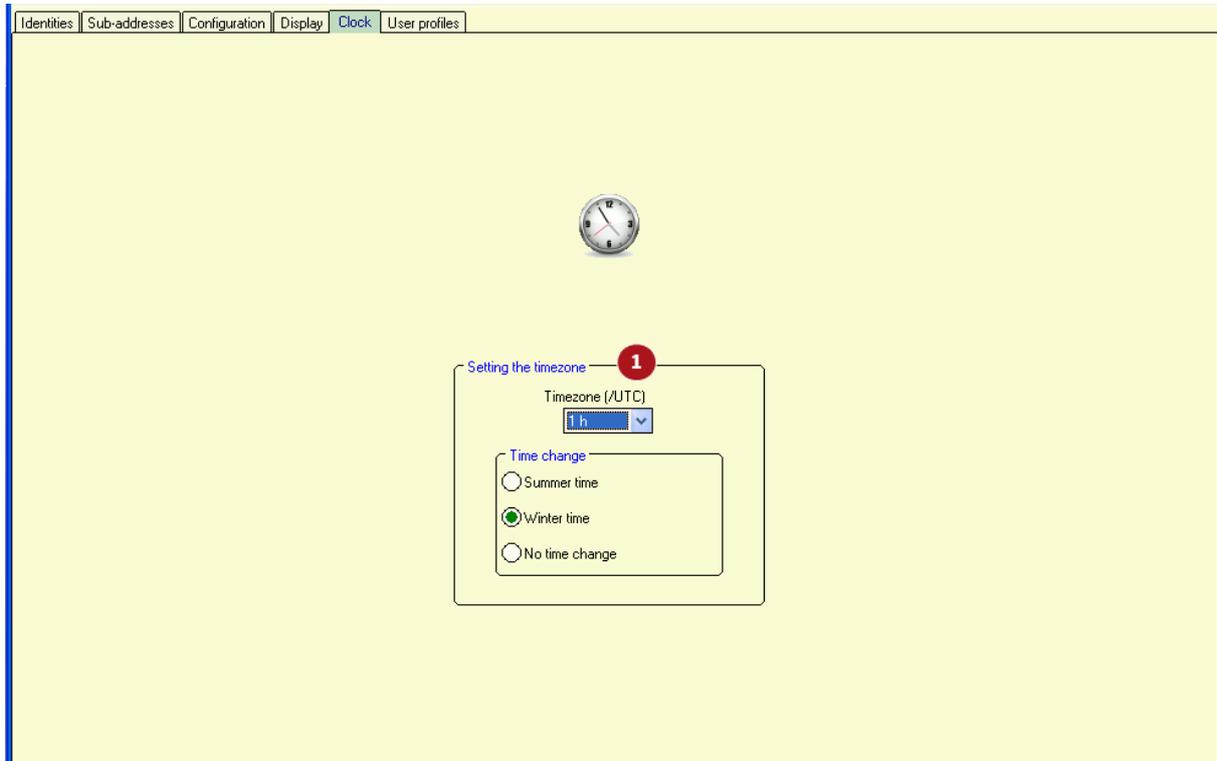
1 **Setting the timezone**

Enables to define the parameters of the clock

Time zone (/UTC) Define time zone as an UTC zone

Time change Select a time change for summer/winter season
Summer time / Winter time : Select summer or winter time according to your time when you program your BIRDY pager, if you use this feature
No time change : If checked, time remains as defined in time zone.

When launching the programming software, time zone definition is updated according to the computer parameters.

6.6 User profiles

| Identities | Configuration | Display | POCSAG transmission | Clock | User profiles | Predefined messages | Text filters |

🖥 = Backlight   🛑 = No specific parameter   📶 = Volume (Ring)   😊 = Blink

The frequency must be multiple 2,50 kHz and ranging between 80,00 and 999,00 MHz

#		Name	🖥 🛑 😊	LED 🛑	Ring 🛑	📶 🛑	Vibrator 🛑 Yes Before ring	Radio frequency (MHz) 🛑
1	✓	Fave profile	✓	✓	✓		✓ ✓	
2	✓	2nd choice	🔲 ✓	✓	N°3	4	✓	440
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

A profile applies to one or all of identities and sub-addresses.
A profile consists in a choice of audio and visual alerts that apply on receipt of a message.
When user profiles are defined in the **BIRDY** programming, a menu *Profiles* is available in the **BIRDY** menu. Go to this menu to activate a user profile if needed.
By default when you start the **BIRDY**, the last chosen profile is active.

❶ Profile activation

You can define up to 12 different profiles.

Click on field to activate the corresponding profile ✓ .
When active, the profile must then be defined in the line.

❷ Profile name

Enter a name for your profile.
Name is 13 characters max.

❸ Profile parameters

Click on the 🛑 column :
✓   No specific parameter selected
▢   Specific value can be applied

Backlight   Click on the first field to select colour from drop-down list.
          Click on the second field to enable the blinking.
LED   Click on the field to validate the flash LED ✓

Ring	Click on the field to select ring tone from drop-down list.
Volume	Select volume attached to the profile
Vibrator	Yes : Click on the field to validate ✓ vibrator.
	Before ring : Click on the field to validate ✓ vibrator before ring tone.
Radio frequency	Click on the field to enter a radio frequency for the received message. Value is in MHz, and ranges from 136 to 999MHz and must be a multiple of 2.5KHz.

After you defined user profiles go to ⑮ in *Identities* tab (see **paragraph 6.1**) and link a user-profile (identified by its number) to a sub-address. When this sub-address receives a message the user profile will be applied.

6.7 Pre-defined messages

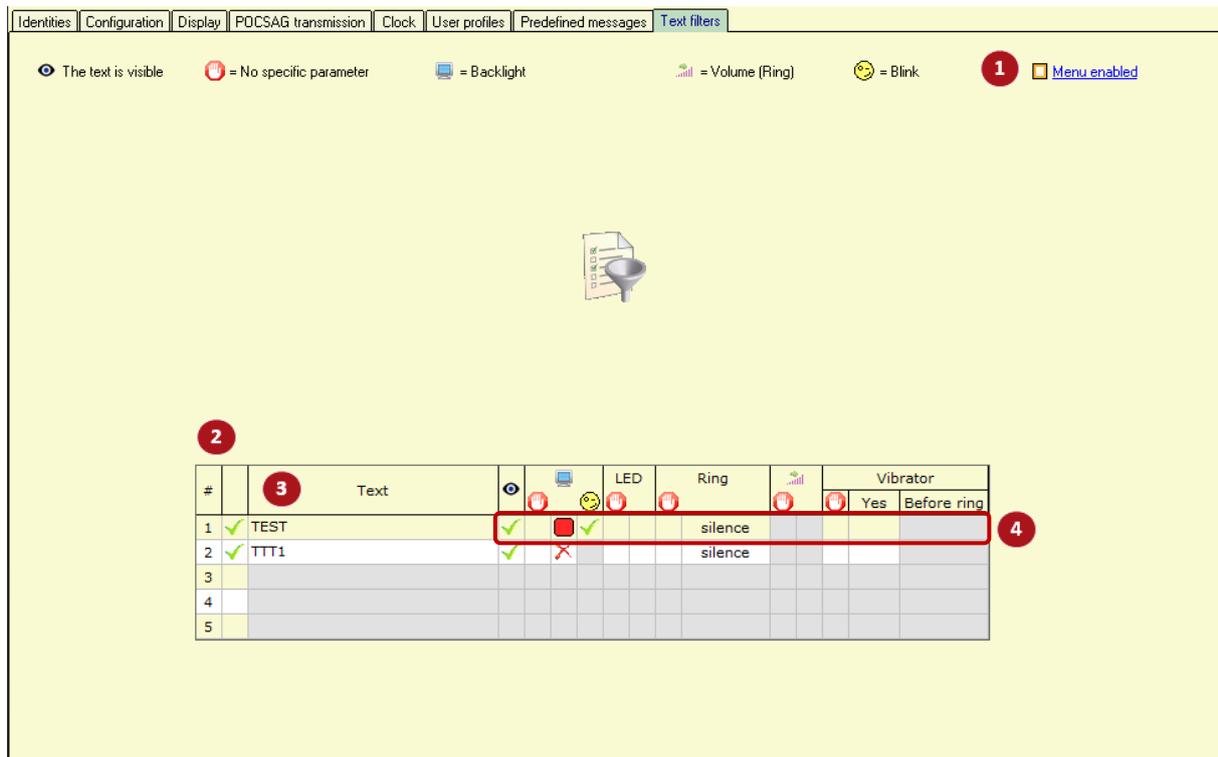This window enables to define pre-defined messages in the **BIRDY**.

① Pre-defined messages list

You can define up to 64 messages of 40 characters max each, identified by their number.

Link the message to a specific sub-address in ⑧ in *Identities* tab (see **paragraph 6.1**) and the pre-defined message will be displayed on **BIRDY** screen when sub-address is set off.

6.8 Text filters

The text filters window enables user to filter some words or group of words in a received message.

❶ Menu enabled

If checked, BIRDY will offer a Filters menu to user, for them to validate the filters and apply filters to identities (all sub-addresses are selected).

❷ Filter activation

You can define up to 5 different filters.

Click on field to activate the corresponding filter ✓ .
When active, the filter must then be defined.

❸ Filter

Enter the word or group of words that will be filtered in the received message.
Filter is 13 characters max.

❹ Filter parameters

Click on the 🤚 column :

✓   No specific parameter selected

     User is able to define parameter.

Text is visible   Click on the field to make the filtered text visible in the message. Otherwise filtered text will not be displayed in the message.

Backlight   Click on the first field to select colour from drop-down list.
Click on the second field to enable the blinking.

LED	Click on the field to validate ✓ the flash LED
Ring	Click on the field to select ring tone from drop-down list.
Volume	Select volume attached to the profile
Vibrator	Yes : Click on the field to validate ✓ vibrator. Before ring : Click on the field to validate ✓ vibrator before ring tone.

After you defined filters go to 🔴14 in *Identities* tab (see **paragraph 6.1**) and link a filter to a sub-address. When this sub-address receives a message the filter will be applied.

7   BIRDY firmware update

In order to update your **BIRDY** :

- Make the appropriate plugging (refer to **paragraph 2.1**)
- Launch the **BIRDY** Programming software **TPLpagers**
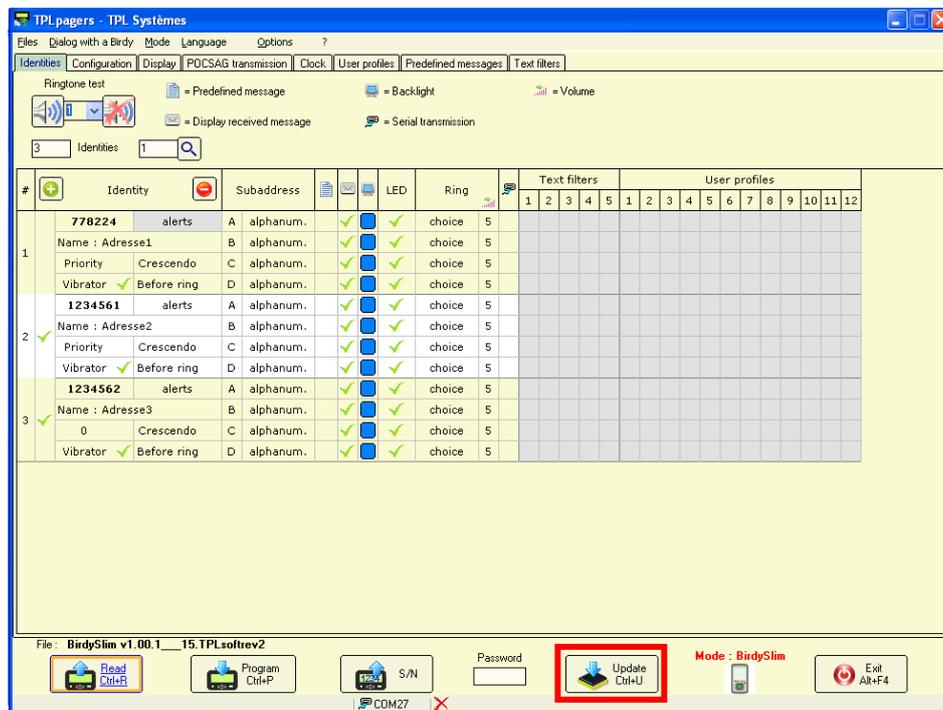
- Click on button "**Update"** in the tool bar at window bottom
- A window « Open a software file » opens
- Select the **BIRDY** new firmware file **BirdySlim v_X.XX.X__X.TPLsoftrev2** in the desired directory and click on "Open".
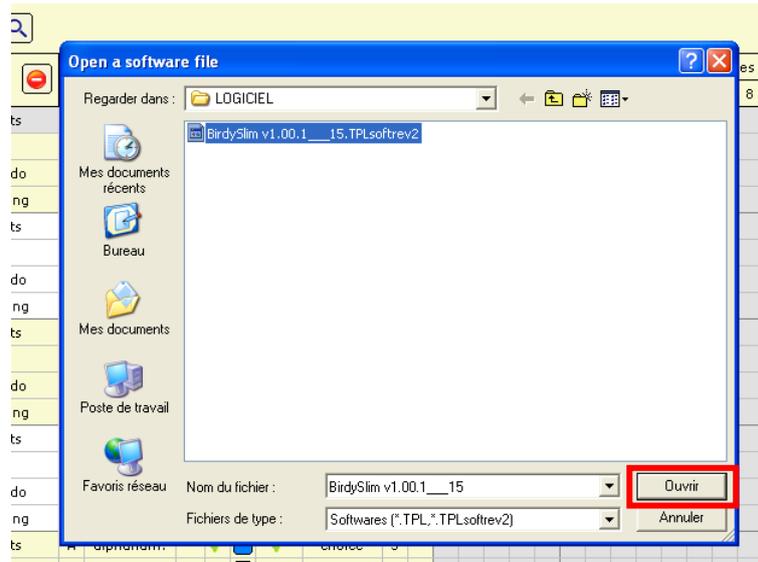
A pop-up which title is "LOGO" opens and offers the possibility to change the **BIRDY** boot up pictures.

If the option "Change primary logo" or "Change secondary logo" is selected, a window opens in order to upload the picture file which will replace the corresponding logo.
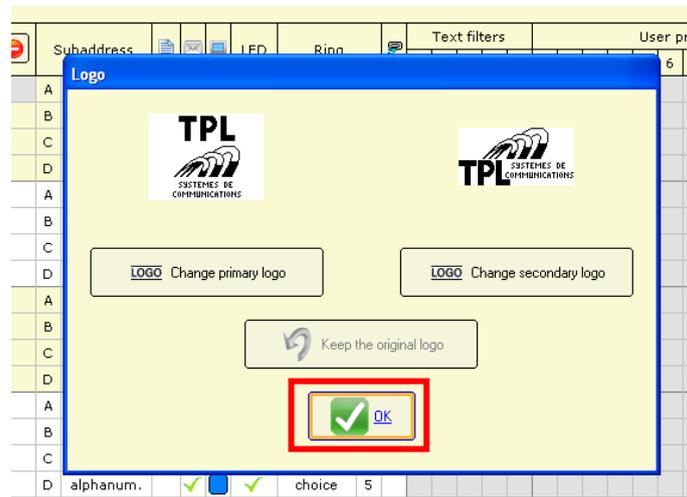Note :
For primary logo, picture has to be :
- in **bitmap** format, in **black and white** with the following dimensions: **72 pixels** high, **96 pixels** wide.
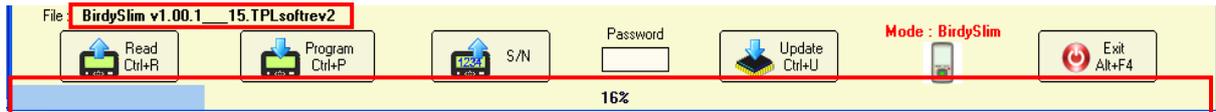For secondary logo, picture has to be :
- in **bitmap** format, in **black and white** with the following dimensions: **48 pixels** high, **96 pixels** wide.
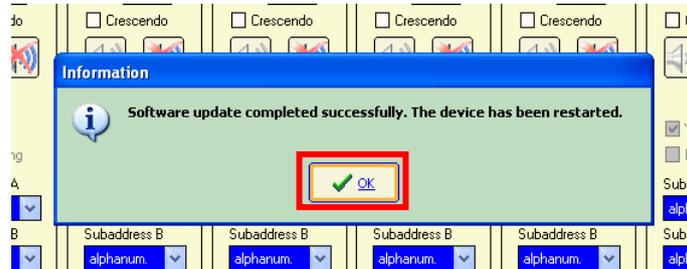

If you do not wish to change logo, click directly on "OK".

A progress bar shows the updating progress (about 45s). All the selection fields are then shaded and the new version file can be seen on top left of tool bar.

BIRDY display shows "FLASH" and blinks in yellow.

When the **BIRDY** software update is complete, click on OK in the **TPLpagers** success window which pops up.
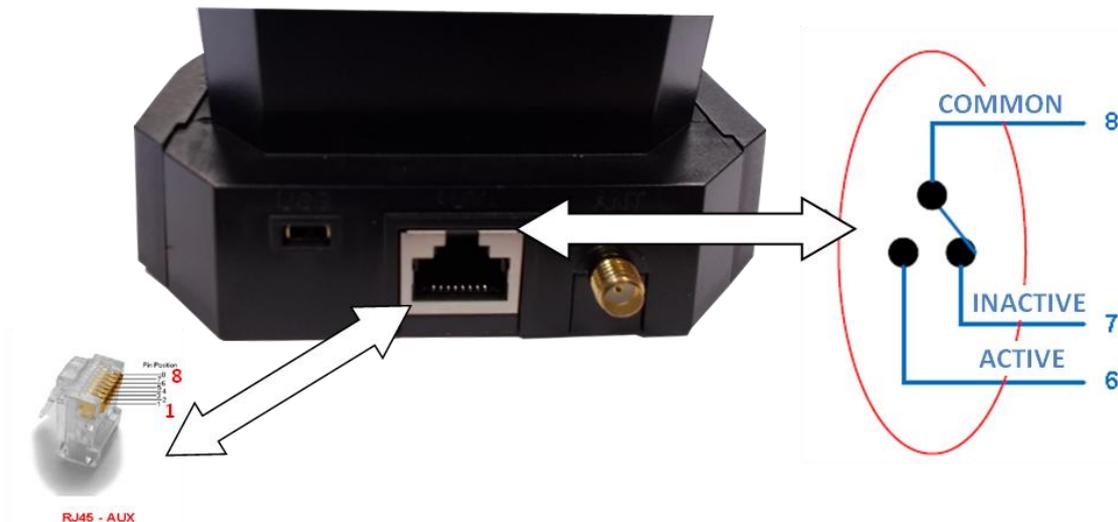

The **BIRDY** pager is automatically restarted after the update (sound).

In order to check if the updating went well:
- Take the **BIRDY** out of the programming cradle
- The **BIRDY** starts automatically
- Version is displayed on boot. You may also go to the *Technical Menu* and *Version* in the **BIRDY**.

8 Cradle relay output

This connector enables to program a relay output from a RJ45 plug.

COMMON line is protected by a 1A fuse.
ACTIVE line must be < 120V. Please connect it through a power relay or equivalent.