



# BIRDY WP

Robust and waterproof pager



TPL DAYS 2017



- POCSAG receiver – good sensitivity
- Waterproofness IP67
  - Standard conformity (30 min / depth of 1 meter )
- Rugged case
- Long battery life
- RFID tag included (door control access ...)





## General features

- POCSAG receiver
- Battery AA type (rechargeable or standard battery)
- Display 4 lines 20 characters
- 128 addresses (2 types)
- 4 sub-addresses for each address, with the possibility of setting a pre-defined message with associated ring
- Only synthesized version
- 21 melodies
- Multi-languages
- 12 user profiles
- Out of Range
- Vibrate
- Back light
- Programming by Windows compatible software through USB output
- Micro-controller updating by PC
- Battery charger with or without antenna



# BIRDYWP

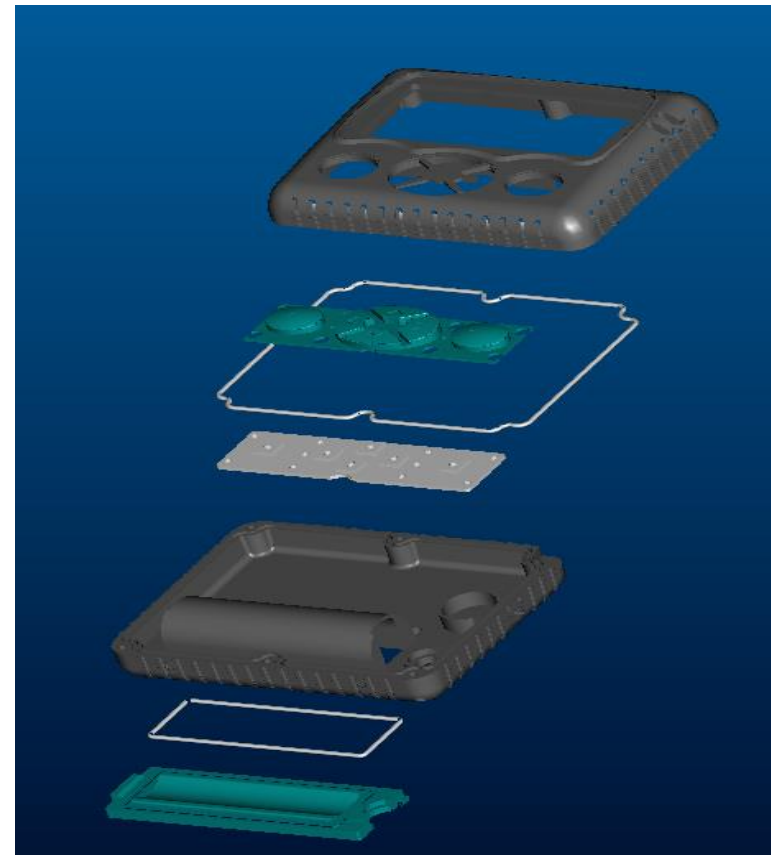
Waterproofness



The conception of BIRDYWP/s is compliant with IP67 standard.

The mechanical integrates 2 rubbers for the waterproof protection, and the final assembly is made thanks to 6 screws.

The case is very robust.





# BIRDY WP

2 revisions

## Revision 1 :



## Revision 2 :

- New CPU
- Only Synthetised version
- New radio 8 or 128 addresses
- Flex version
- **Cameleon** display, (programming of each identity or sub-address with a specific color)
- New rear case with belt clip integrated





01110000111101010  
0110101011100

**TPL Systèmes** has developed in collaboration with the RED CROSS CARINTHIA a software encryption for BIRDY WP / III.

This encryption is based on AES256

**S2P<sub>256</sub>**

Secure Paging Protocol 256



**AUSTRIAN RED CROSS**

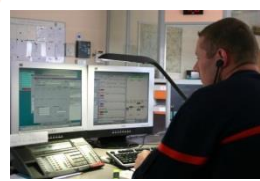
**CARINTHIA**

**+**  
**AUSTRIAN RED CROSS**  
**CARINTHIA**

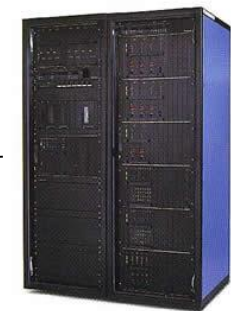
01110000111101010  
0110101011100



**Control room**



**POCSAG Tx**



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P(Hd:lm5j)k1P2VM-m9V9@49"3B16;\_/\_02U0/Vb.[dUa:"8Q7Y)FQ9="NcRA\$@/ArCS8.XqXchHW@lq\XcWf&H84KeA%W/Xle\$PVKPHAZ E[\*j+kuOf%m]Pd7)+q,lmOe @HDOMOTkOXrQKfN.?nP,C K\!Y8^0Gq\$<r9o>THM(eTp£i d!htjib:Z`tY"/>"B[nh9bkjIV>9j\$ ^J,j&Gt].\sU&+p^s\_G(b4G8&tb,/jDZ?E9@<@%f\_LJh)(N\_Vtm

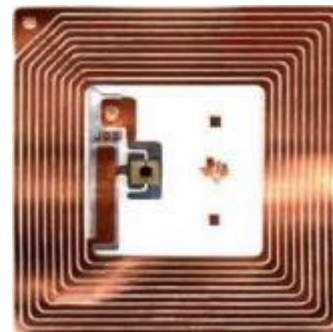


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## **RFID tag features**

- Integrated (within the label) on the back of the pager
- Mifare technology in 13,56MHz (widespread in the world)
- Access control (door opening, in-vehicle crew management...)
- Integrated tag on the battery door
- Doesn't need any power supply
- No programming needed







## Charger

- 220V charger with intelligent circuit
- Includes red LED light which flashes when receiving alert
- Contact relay
- Option: external input for POCSAG antenna
- Option: pager programming by USB





Plastic holster



Horizontal leather pouch  
"low cost"



Leather pouch  
« smartphone type »  
with magnet



Vertical leather pouch  
Vertical textile pouch

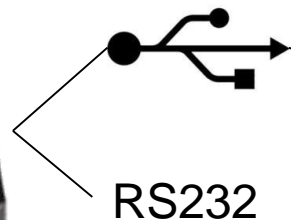




***New feature on the BIRDYWP***

**Remote control on serial port**

- Transmission of the message on the serial port
  - RS232
  - USB
- Manageable serial protocol
- Usable for LED panel, TV, etc...





(1) **TYPE EXAMINATION CERTIFICATE**  
(TRANSLATION)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

(3) Type examination certificate number:

**SIQ 13 ATEX 190**



(4) Equipment: Birdy WPs ATEX, type synthesized POCSAG pager

(5) Manufacturer: TPL SYSTEMES

(6) Address: ZAE du Perigord Noir, BP 145, FR-24200 Sarlat, France

(7) This equipment and any acceptable variations thereto are specified in the schedule to this certificate and in the documents therein referred to.

(8) SIQ Ljubljana certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report TEx190/13.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with the following standards:

**EN 60079-0 : 2012**

**EN 60079-11 : 2012**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This type examination certificate relates only to the design, examination and tests of the specified equipment in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



**TPL Systèmes** has developed a specific ATEX version for the BIRDY WPs, with the level :

**II 3G Ex ic IIC T4 Gc**

This certification is available on BIRDY WPs in VHF band, not UHF for the moment.

This certification is the first level on the ATEX certification.

Certification body

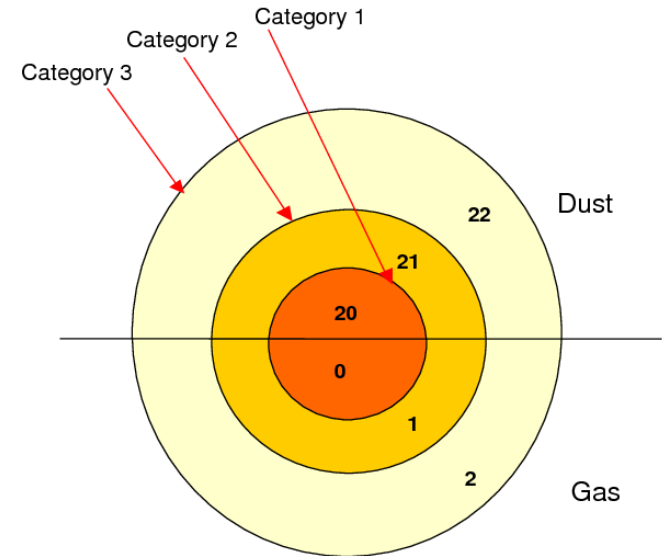
Ljubljana, 12 September 2013

Igor Likar

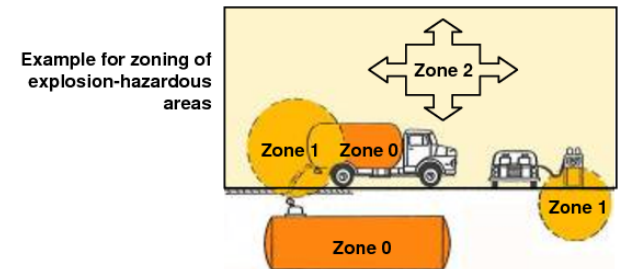


**II 3G Ex ic IIC T4 Gc**

- II – Equipment group: II surface industries
- 3 – Category: 3 equipments (suitable for use in Zone 2)
- G – Gas: Suitable for atmospheres containing gas
- Ex – Explosion-proof electrical equipment
- ic – Hazardous areas: Intrinsic Safety 'ic' – Zone 2 -
- II – Gas Group II - surface industries
- C – Gas sub group = Hydrogen
- T4 – Temperature class T4 (135 degrees centigrade surface temperature)
- Gc – Equipment Protection Level : Applicable zone 2



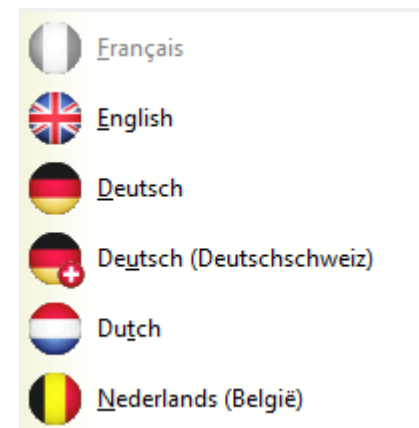
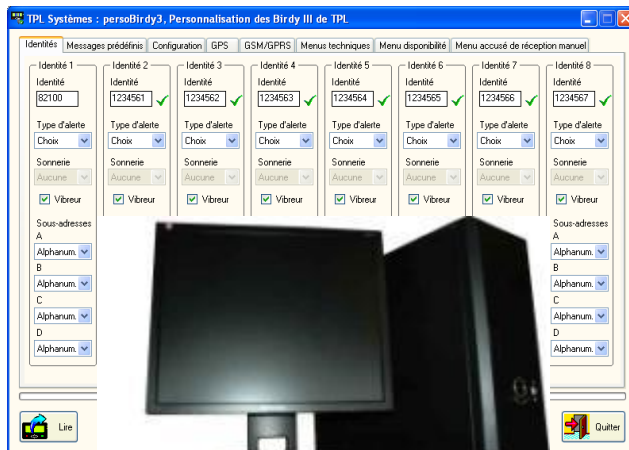
- Explosive atmosphere: permanent, long-term
- Explosive atmosphere: occasionally
- Explosive atmosphere: rare, short-term





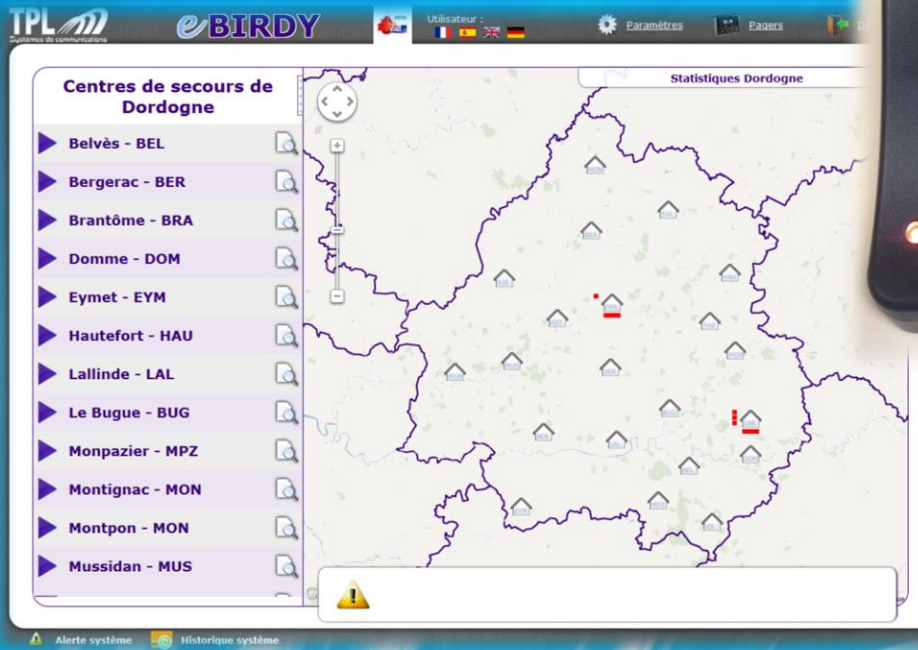
### Programming software

- WINDOWS compatible software
- USB link between programmer and PC
- Programming of the whole BIRDYWP functionalities
- Same software for the BIRDY range
- Same software for programming and upgrading
- Multi-languages software



# eBIRDY

Birdy pagers remote management system



**eBIRDY** is a web platform enabling the management, the deployment and the update of Birdy pagers range (Birdy WP / Birdy III / Birdy Slim).

- Customer-server architecture and SQL database
- Web interface
- Birdy customization update follow-up
- Birdy software update follow-up
- Alarm management with programming cradle
- Possibility of using the craddles in isolated mode

**This system is unique and the customer like firefighter organization wins lot of time and money to manage its Birdy fleet**





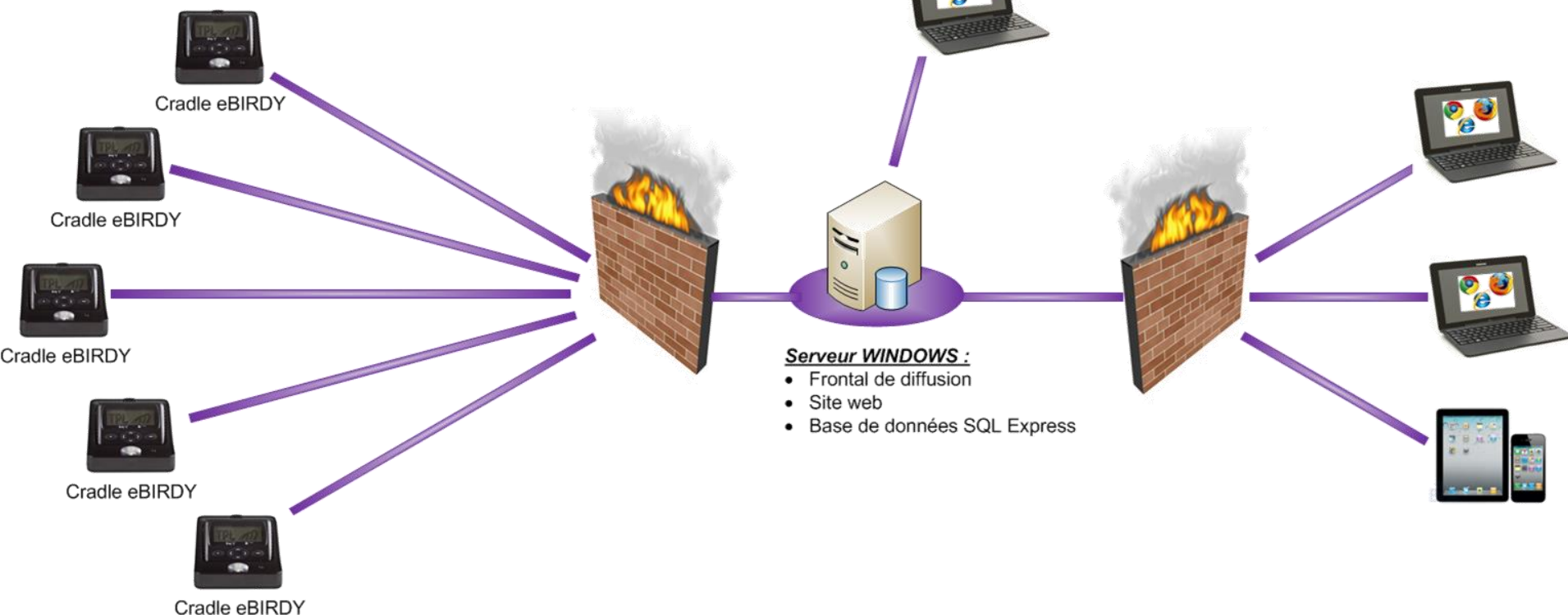
**Fire brigades**



**Control room server**



**Web browser**



For Birdy WP and Birdy III



**Red** : 5V present  
**Blink**: battery charge indicator

**Display** :  
Files transfer information  
Update process status

**Blinking green**: RUN  
**Blinking red**: update in progress

Fire brigades list

Map of the fire brigades

The screenshot displays the eBIRDY website interface. At the top, there is a purple navigation bar with the TPL logo, the eBIRDY logo, and menu items for Support(s), Pagers, and Paramètres. On the right side of the bar, it shows the user is logged in as 'Utilisateur : Administrateur ad.' with a logout icon.

The main content area is divided into two sections. On the left, under the heading 'TPL SYSTEMES TPLS', there is a list of fire brigades, each with a blue arrow icon and a small image of a mobile device. The list includes:


- TPL - TPL SYSTEMES
- ABM - AB COM
- ALEX - Alex
- DMO - DEBOCOM** (highlighted with a red arrow)
- DBCO - DEBOCOM
- DMO - Demo
- FAB - Fabrication
- LUX - Luxembourg
- SRL - SARLAT
- S42 - SDIS42
- 2.2 - CIE 2.2
- 2.3 - CIE 2.3

On the right, there is a map of the region, showing various towns and roads. A red arrow points from the 'DMO - DEBOCOM' entry in the list to a specific location on the map, which is marked with a red icon. The map shows towns like Brive-la-Gaillarde, Sarlat-la-Canéda, and Rocamadour.

At the bottom left of the page, there is a yellow warning triangle icon. At the bottom right, there is a footer with the text 'eBirdy V2.1.7 800' and several small icons representing different countries or regions.

Statistics on customization follow-ups and software  
updatings

Support(s) Pagers Paramètres Utilisateur : Administrateur ad.

 Statistiques

	Logiciel pager		Personnalisation	
Birdy3-Flex	✓ 0	0	✓ 0	0
BirdyESPION	✓ 0	0	✓ 0	0
BirdyIII-r1	✓ 0	0	✓ 0	0
BirdyIII-r2	✓ 1	0	✓ 2	0
BirdySlim	✓ 0	0	✓ 0	0
BirdyWP	✓ 0	0	✓ 0	0
BirdyWP-r2	✓ 454	0	✓ 411	43
BirdyWPs	✓ 0	0	✓ 0	0
<b>Global</b>	<b>✓ 455</b>	<b>0</b>	<b>✓ 413</b>	<b>43</b>

eBirdy V2.1.7 800

## New software version deployment

The screenshot displays the eBIRDY website interface. At the top, there is a purple navigation bar with the TPL logo, the eBIRDY logo, and menu items: Support(s), Pagers, Paramètres, and Utilisateur : Administrateur ad. The main content area features a window titled "Logiciel pager du groupe TPL SYSTEMES".

Inside this window, the "Version à déployer" dropdown menu is set to "BirdyWP >> BirdyW v1.04.0\_\_03". To its right is a button labeled "Ajouter un fichier". Below this, there is a "Sélection Pagers" section with a search input field and a "Liste des profils" dropdown menu. A list of pagers is shown, with "BirdyWP-r2" selected for deployment. The list includes the following entries:

Version	Profil
BirdyWP-r2	GIBELIN_J
BirdyWP-r2	GOUIL_P
BirdyWP-r2	HAINCOURT_...
BirdyWP-r2	HAMON_K
BirdyWP-r2	HENRY_D
BirdyWP-r2	HOMMAIS_P
BirdyWP-r2	HORN_S
BirdyWP-r2	JEGADO_L

At the bottom of the window is a large blue button labeled "DÉPLOYER". A red arrow points from the text "New software version deployment" to the "Ajouter un fichier" button.



Addition of pagers

**EXCEL file**

Numéro de serie	Centre du pager (Mnémonique)	Nom de l'utilisateur	Prénom de l'utilisateur	Type du pager	RIC	Mot de passe de perso	Mot de passe de flashage

Liste des Pagers

Enregistrements par page : 10

Ajouter un pager

Rechercher :

Type	Groupe	Numéro de série	Utilisateur	Version Soft	Statut Soft	Version Perso	Statut Perso	Actions
BirdyWP-r2	Fabrication	0915303091925	NICOLAS_I	1.00.3.3	✓	0915303091925-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091924	NDIAYE_O	1.00.3.3	✓	0915303091924-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091923	MUNAGORRI_...	1.00.3.3	✓	0915303091923-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091922	MOSCODIER_...	1.00.3.3	✓	0915303091922-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091921	MAILFERT_G	1.00.3.3	✓	0915303091921-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091920	LENGLOS_C	1.00.3.3	✓	0915303091920-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091919	LEGIER_B	1.00.3.3	✓	0915303091919-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091918	LE NOUÛNE_...	1.00.3.3	✓	0915303091918-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091917	LASSIETTE_...	1.00.3.3	✓	0915303091917-birdyWPr2-rev2	✓	
BirdyWP-r2	Fabrication	0915303091916	LAGIRAND_R	1.00.3.3	✓	0915303091916-birdyWPr2-rev2	✓	

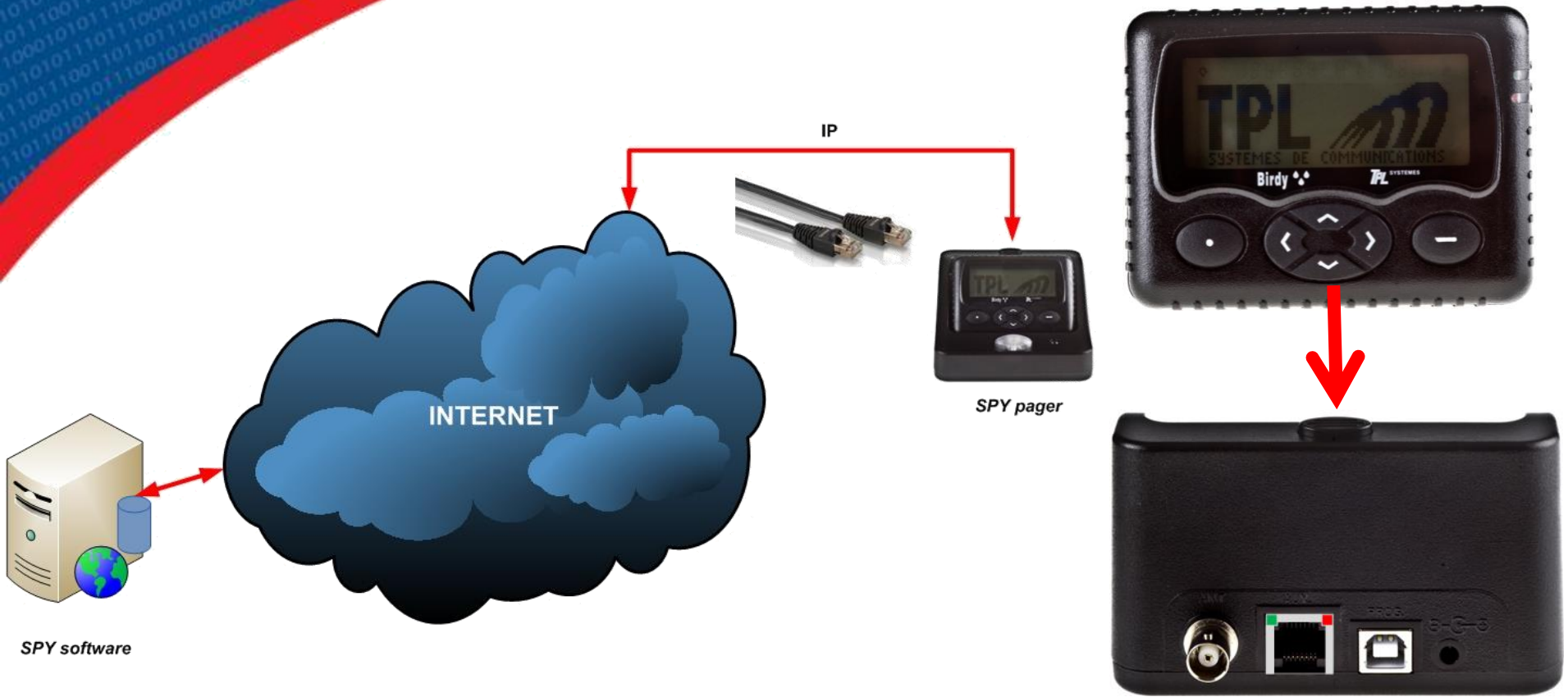
Affichage de l'élément 381 à 390 sur 484 éléments

Précédent 1 ... 38 39 40 ... 49 Suivant



# SPY POCSAG

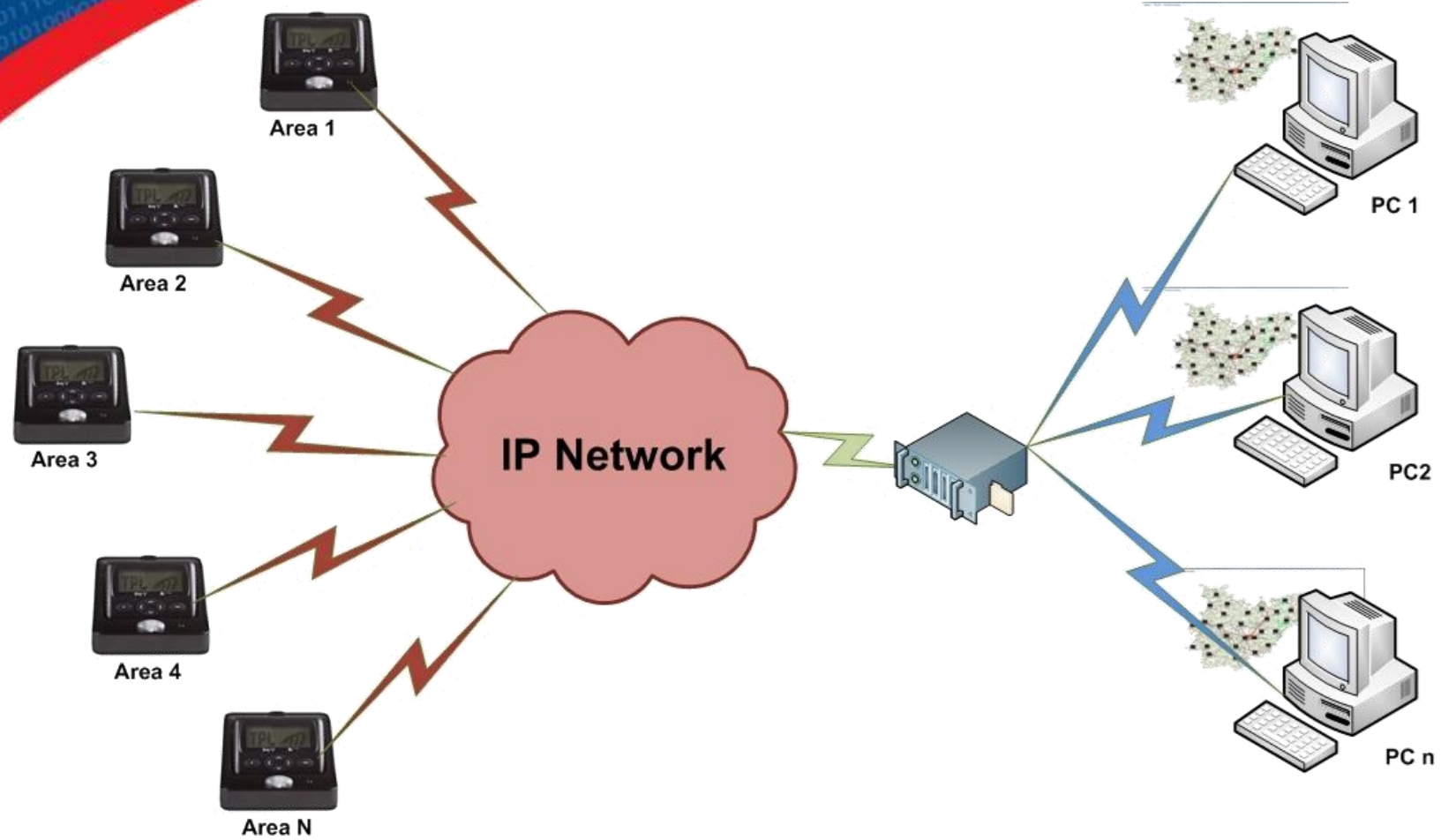
## Functionning pattern



**SPY POCSAG** is a software server for monitoring POCSAG networks using IP connection, it allows to record all messages and alarms received by **Birdy WP** pagers.



# SPY POCSAG Functionning pattern

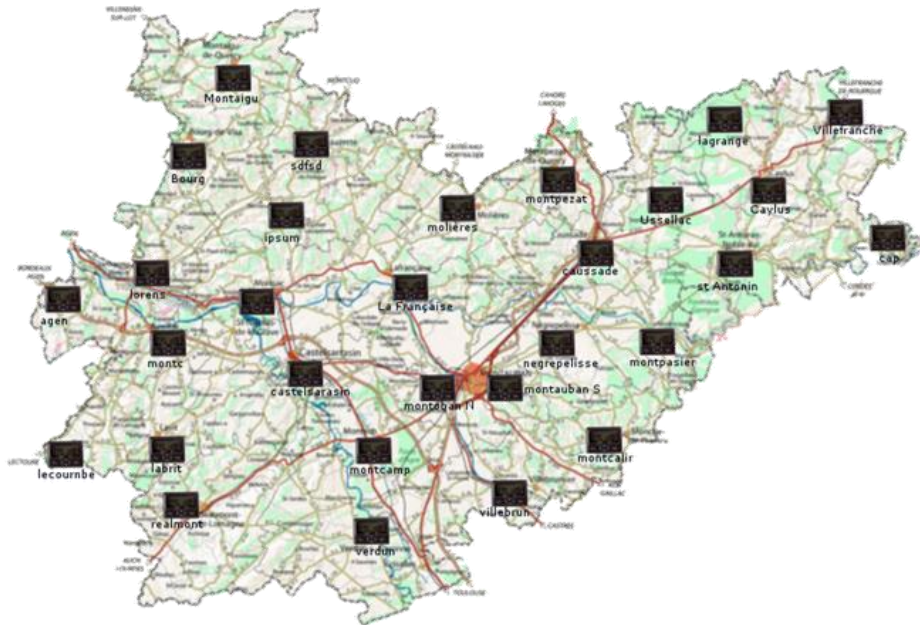


**SPY POCSAG** is based in a server/client platform and several **BIRDYWP SPY** located in each fire brigade, hospital or industry and dialoging through IP until server.

# SPY POCSAG Pager BIRDY WP128

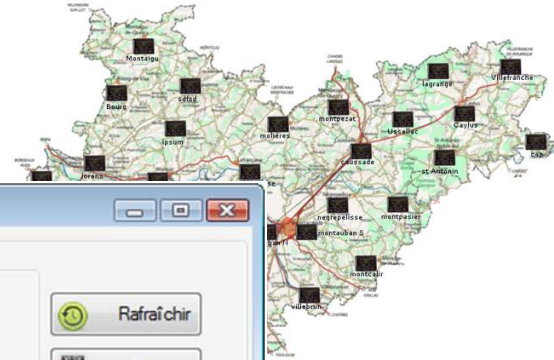


**BIRDYWP SPY** terminal is a **BIRDYWP 128** RICS with a specific software.  
**BIRDY WP128** must be placed on an IP SPY charger with Ethernet port.



Spy **POCSAG** server is build with a software running on **WINDOWS** and with an SQL database that provides a secure record of each message and parameters. Visualization software can be install in several machines and work simultaneously in order to consult all received messages by **BIRDYWP SPY** terminals. Thanks to its configurable geographic background map, its very easy to display if one **BIRDYWP ESPION** detects errors or radio electric perturbations.

serveur  
Espions Alarmes Données du réseau ?



**Historique de Sarlat**

Historique

Profondeur

12 heures   
  Libre   
 De 25 janvier 2012 09:10:54   
 à 26 janvier 2012 09:10:54

1 jour  
 3 jours

Rafraîchir

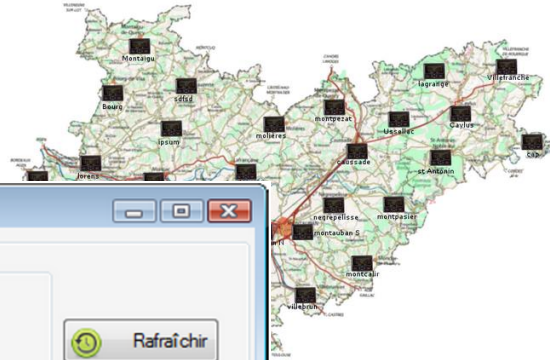
Exporter

Horodatage de l'évènement	RIC	Centre	RSSI	Message
26/01/2012 09:10:11	0244321	Sarlat	- 85	DEPART VSAV
26/01/2012 09:08:25	0244321	Sarlat	- 85	OVH ALARME

2 enregistrements

Fermer

With the help of its search tool, its easy to perform a search of Pocsag alerting that has be done at a precise date, to verifier the message, RICS codes called, RSSI and verify if there was an alarm or not.



**Informations techniques de Sarlat**

Historique

Profondeur

12 heures   
  Libre   
 De 25 janvier 2012 09:11:02   
 à 26 janvier 2012 09:11:02

1 jour   
 3 jours

Rafraîchir

Exporter

Données

- Toutes les données -

Horodatage de l'évènement	Centre	Message
26/01/2012 09:07:46	Sarlat	Inscription de l'espion
26/01/2012 09:07:46	Sarlat	Reprise de la connexion sur l'espion
26/01/2012 09:07:42	Sarlat	Déconnexion réseau
26/01/2012 09:07:39	Sarlat	Coupure de la connexion sur l'espion
26/01/2012 08:59:19	Sarlat	Inscription de l'espion
26/01/2012 08:59:19	Sarlat	Reprise de la connexion sur l'espion
26/01/2012 08:59:15	SARLAT CS	Déconnexion réseau
26/01/2012 08:59:15	SARLAT CS	Déconnexion réseau
26/01/2012 08:59:11	Sarlat	Coupure de la connexion sur l'espion

If there's no permanent operator, you will automatically receive an email and/or an SMS. Alarms received can be the following : permanent transmission, neighbour networks detected, weak RSSI, operational alarms.

- Server
  - Windows WP/SEVEN/Server 2003/ Server 2008
  - Processor I3 or more
  - Memory: 2Go
  - Installation SQL Serveur or SQL Express (limited to 4Go)
  - Network access
  - SMS
- Remote computers
  - Windows WP/SEVEN
  - Network access

- Features
  - Number maximum of SPY: 200
  - Number maximum oc remote computers: 100
  - If connection fails between BIRDYWP ESPION and the server, BIRDYWP SPY record last 127 received messages (256 characters max) to retrieve them once connection to server is back.
  - Terminal BIRDYWP ESPION is equipped with external antenna
  - Dynamic RSSI 40dBm
  - Sensitivity = -110dBm (example for a 173,5125Mhz in 1200bauds)



# THANK YOU



...when every second counts