

# Description of Catch'N Do

*Philog* has become heavily involved in a technological project, including an RF component (especially Bluetooth).

Within the context of this project, *Philog* has completed all stages of technical design, definition of equipments, creation of protocols, definition of software and patents registration.

Catch'N Do enable provides a bridge of simple communication, adoptable by any consumer, between the real world and the virtual world.

The innovation is to use a mobile phone or PDA as a terminal enabling to share information with different equipments, especially a terminal, through a service that is different from the telephony.

## 1. DESCRIPTION OF THE INITIAL PROJECT

The technical project technique consisted to place, in the mobile terminal, the elements enabling it to receive and/or deliver information from and / or to diffusion terminals.

To achieve these communications, *Philog* has developed a certain amount of programs to be embedded into the phone, the terminal, and, more generally, into equipments involved into these communications (servers, additional equipments...).

For this, *Philog* has identified various communication protocols between all these elements.

The communications, between the phone and the terminal, are RF-type (radio) and are, as a first step, Bluetooth oriented. It goes without saying that the set of protocol and software architectures are entirely independent from the transportation mode.

## 2. TECHNOLOGY

*Philog* proceeded with the implementation of a Terminal (PC) diffusing advertising-type messages to a mobile terminal (Visor-type PDA) via a BlueTooth connexion.

### 2.1 THE TERMINAL

Development of a Client application performing the following things:

- Permanent enumeration of the devices being in the picoNet.

For each device:

- Connexion RFCOM to the found server(s)
- Diffusion of messages using the *PROMOBILE Philog* format

Technical aspects:



- WidComm BlueTooth stack,
- IHM-type application under VisualC++,
- Multithread, API Socket, API CygWin,
- Portage under Linux.

## 2.2 PDA VISOR

### Development of a Server Application:

- Waiting for a Client connexion (Terminal),
- Receiving messages,
- Messages user management via a Man to Machine interface (filtering, redirection to an application of browser- or phone- type).

### Technical aspects:

- WidComm Bluetooth stack,
- Cygnus (Gcc) cross compiler,
- .prc-type application taken into account by the HotSynch mecanism.