CarePhone 2 Configuration application

Abstract: This document contains the manual for CarePhone Configuration application PA2Config
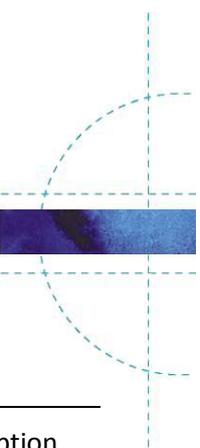
Revision history

Date	D.Rev.	S.Rev.	Init.	Comment
07-FEB-2017	00.1	1.2.0	HM	Document created, based on old PA1 config description

Contents

Introduction

References

Acronyms

1. Communication

It is possible to communicate with the CarePhone PA2 by using the special programming charger (with 4 pins instead of 2) through the USB cable and connect it to a PC running Windows. Select the correct COM port.
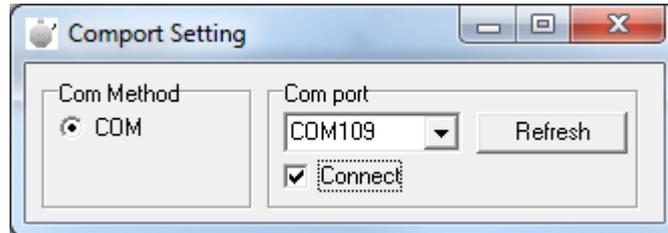
Communication status is shown in the main window status bar at the bottom

---
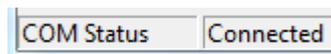
2. Subscription Setup

To be able to set the subscription parameters it is necessary that the application communicates with the CarePhone through the USB connection. The subscription setup can setup the base ARI in the CarePhone and/or clear any previous subscription data - another subscription feature is to clear the base ARI, in which case the CarePhone tries to subscribe to the first base it detects (not necessarily the one with the strongest signal)

To setup and read Base/CarePhone ARI/IPEI use the Subscription window.
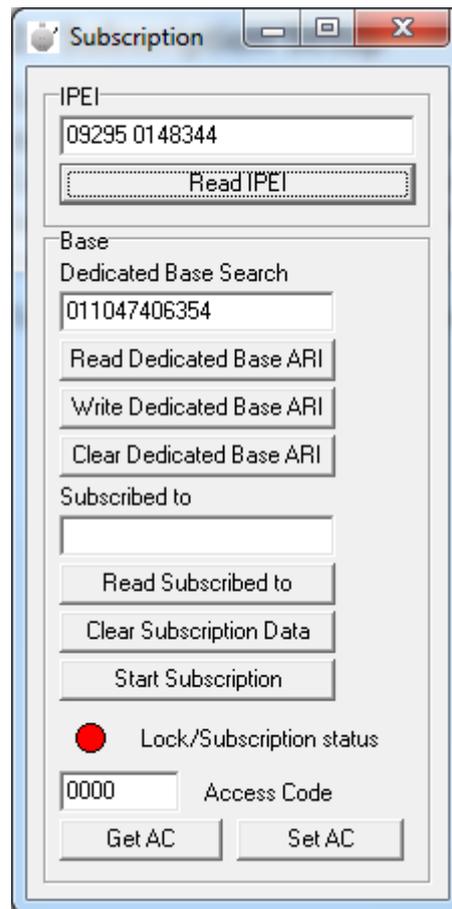
Depending on the base station, the base station may need to know the CarePhone's IPEI code. This is found by pressing the "Read IPEI" button – and use the information retrieved in the text field to configure the base station.

If Access Codes are used these can be set by the Get and Set AC buttons, single cell base stations usually use the Access Code 0000

To configure the CarePhone for subscription to the base, it is possible to make it in 3 ways:
1. If the base station ARI is known, it can be entered in the base ARI text field,.

2. It is also possible to clear the base ARI information in the CarePhone, which makes the CarePhone search the first base and subscribe to it (if subscription is allowed by the base).

3. Automatic subscription. With the CarePhone in the charger and the charger is powered, press 5 times on the front button of the charger within 5 seconds – the CarePhone automatically clears its (if any) existing subscription and starts searching for a new base station

If the CarePhone has been subscribed to another base before, it is necessary to clear the subscription data first (unless using the automatic subscription). This is done by pressing the "Clear Subscription Data" button.

When using Automatic subscription, by default it will use empty Access codes unless being set before hand.

3. Firmware download

To download new firmware to the CarePhone, the CarePhone must be placed in a programming charger (the charger has 4 pogo pin instead of normal 2) and connected to a PC. OTA is not supported.

Select the firmware file and press the download button
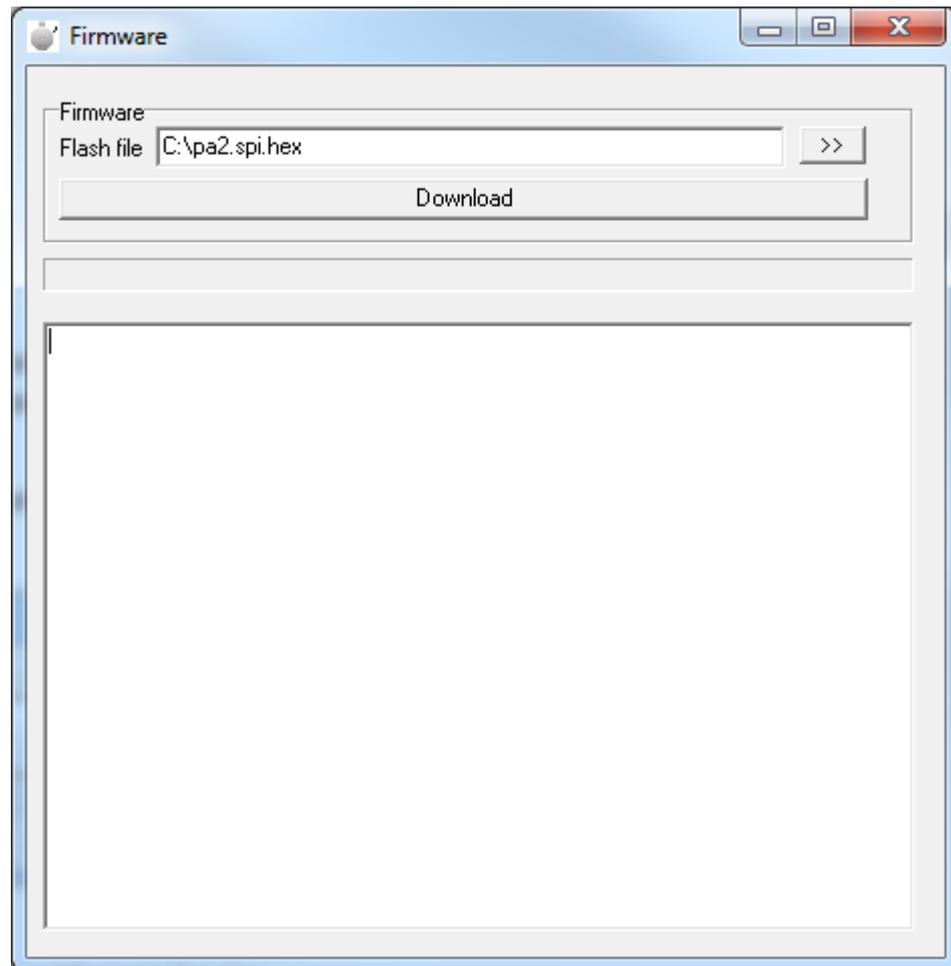
After a few seconds the progress bar should start showing progress.

In case the Programming Charger is not recognized by windows – please download relevant drivers from http://www.ftdichip.com/FTDrivers.htm and select VCP
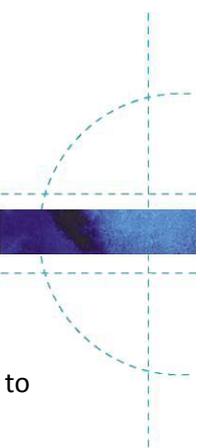
4. Configuration

On the configuration tab it is possible to set almost all configuration settings available on the CarePhone, however some settings have been reduced to a couple of values even if it is possible to set many. Charging Notification and Night Mode settings actually sets 2 configuration items.

4.1 General

Auto Answer on incoming calls can be set to disabled, Immediate Hook off or the number of rings before auto answer. If it is disabled, answering the call can only be done by pressing the front button on the CarePhone, on immediate hook off no ringing melody is sounded and speech is available immediately.

The Ringing Melody can be set to 3 different ring tones if the Vibrator is enabled it will vibrate with the same cadence as the ringing melody

Vibrator enabled during ringing makes the vibrator vibrate during the ringing signal and follows the melody length

If vibrator enabled for the button, a short vibrator feedback is felt when pressing the CarePhone button.

Out of range enabled plays a melody when the CarePhone is out of range of the base station – besides the audio indication of out of range it is also possible to see this on the 4 front red LED's which is running in a circle if there is no connection to the base station (or not registered during startup). The Out Of Range is indicated 15 seconds after the CarePhone loses connection.

Night mode can be enabled to have the 4 red LED's glow with the specified Night mode intensity when the CarePhone is placed in a powered charger – this will make the CarePhone easier to find in the dark at night, and by reducing the LED intensity it will only glow slightly.

4.2 Battery

To indicate to the user that the CarePhone is running low on battery it is possible to set different notification items – both visual and audio.

Setting LED indication enabled will light the top red LED (blinking) when battery is low, if Audio indication is enabled it will sound the battery low sound at the same time. Battery low indication can be set for 10% and 25% and also be repeated every 5 minutes if needed.

```
┌─Battery (NOTE: All enabled is invalid configuration)──────────────┐
│ ☑ LED indication      ☐ 10% capacity left    ☐ Repeat 25% MSF   │
│ ☐ Audio Indication    ☐ 25% capacity left    ☐ Repeat 10% MSF   │
│ ☐ Repeat 25% capacity left Audio      ☐ Repeat 10% capacity left Audio │
└───────────────────────────────────────────────────────────────┘
```

4.3 Audio

As the CarePhone is a full duplex speaker device it is not recommended to set all volumes to maximum as this might give distortion or heavy feedback – a recommended value is 2 for the speaker volume.

All additional sounds and indication use the Ringing volume setting.

```
┌─Audio──────────────────────────────────────────────────┐
│ Speech Volume                Ringing Volume            │
│ [    |         ]  2          [    |         ]  2        │
│  .  .  .  .  .  .             .  .  .  .  .  .          │
│                              ☐ Ringback tones          │
└────────────────────────────────────────────────────────┘
```

4.4 Button Function

When pressing the CarePhone front button it can call a preprogrammed number directly (Direct Call).

At present it is only possible to enter maximum 16 digits.

```
┌─Direct Call────────────────────────────────────────────┐
│ Number 1 [                ] [Direct ▼]  [Read]  [Write] │
└────────────────────────────────────────────────────────┘
```
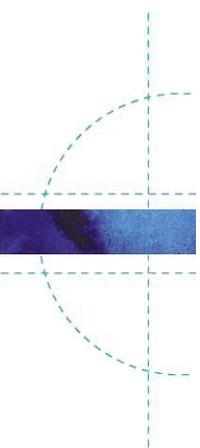
5. Info/status

The Info and Status page gives general information and status of the specified CarePhone).

5.1 Status

By pressing the Get button the latest status can be retrieved – the latest status contains info on battery state, general CarePhone state (Idle, alarm, calling, speech etc.) and also its present charger state.
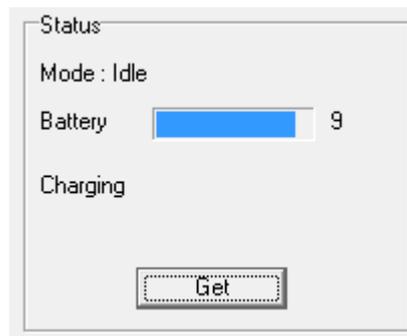
5.2 Info

Information about production date, serial number, hardware and software version can be retrieved by pressing the Get button in the Info window. The serial number is the CarePhone IPEI number in hexadecimal form. Production date is week/year.
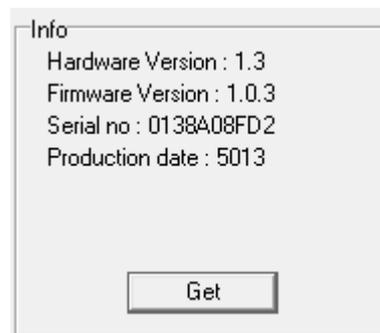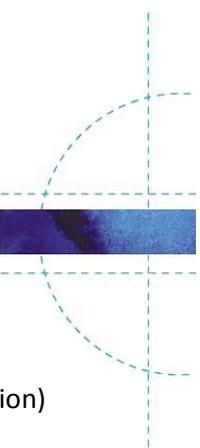
6. Monitoring communication

In the about menu it is possible to activate the monitor window.

The Monitor window shows the packages send and received (subscription setup being an exception) and can be used to debug/help with communication from other applications.

7. Power Off the CarePhone

The CarePhone needs to be put in the powered charger before it is possible to use power off. Keep the front button of the charger pressed for 10 seconds
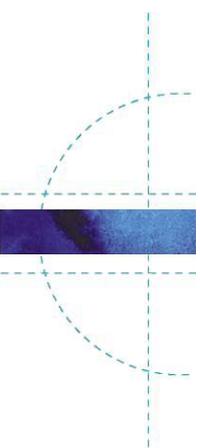
8. Connecting CarePhone to Panasonic single base

This step by step guide will guide you through connecting a CarePhone to a Panasonic base.

1. Sniff the base station ARI, can be done with a KIRK 6020 DECT phone.
2. Input the base station ARI and base station password (0000) into the CarePhone through the CarePhone Programming tool and software.
3. Set base station in registration mode.
4. Using the PA2 Config software, go to subscription tab, and press "Get subscribed".

Notes for step 1:
The base station ARI is a 12 digit number, can be found with any DECT phone that can search for base stations and show their ARI's. The 2 CarePhones and 2 Panasonic base stations, come presubscribed.
KX-TGE220 base ARI: 011757712741 connected with CarePhone with IPEI: 05002 0046394
KX-TG6591 base ARI: 012027175073 connected with CarePhone with IPEI: 05002 0048171

Notes for step 2:
By placing the CarePhone in the Programming dock and using the PA2 Config software, you can set the ARI and password in the Subscription tab.

Notes for step 3:
Setting the base station in registration mode, allows for units to connect and is done by pressing the connect button for 5 seconds on the base.

Notes for step 4:
This might not subscribe first try, and might require a few retries.
After first time being subscribed, subscription could also be done by: Pressing the button on the CarePhone base 5 times in a row, to start registration to base. A red LED should start to flash indicating it's trying to connect.