

Quick start guide for kiosk mode

1 Introduction

This document describe how to setup the CTFPND-9 for kiosk mode, in which only one client application is displayed, and the end user usually have limited access to the device settings.

2 Setup kiosk mode

The device is configured in kiosk mode during firmware upgrade.

A directory called “perso” need to be created at the root of a microSD card, and will contain customer specific data and settings.

As usual, the firmware image need also to be copied at the root of this microSD.

2.1 “perso” directory content

- An optional boot logo, in BMP 24bits format. It must be called “initlogo.bmp”, and need to match display resolution (1024x600)
- An optional boot animation, which must be called “bootanimation.zip”, in Android startup animation format.
- Any number of Android packages (which must end with “.apk”.) These packages will be copied on the device and added to its default package list.

IMPORTANT: to avoid erasing already installed version of themselves, the packages inside the “perso” directory will be copied on the device, but only activated after a factory reset. A factory reset can be

done in the same time as firmware upgrade by adding an empty file called “force_clean” at the root of the microSD card.

- A text file called “setting.txt”, which will contains customer specific configurations and which will be describe below.

2.2 “setting.txt” file content

This text file contains a number of keys, one per line, which will be recorded in the device and modify its behavior.

(in the first version only “restrict_access” is supported)

Key list :

- restrict_access

This key disable access to the settings from the top status bar. Only BRIGHTNESS, ROTATION, CHARGE and SCREEN SHOT are still accessible

All other settings and applications of the device can only be accesses through the client application (or through the default home application if no client is provided)

3 Configuring and Android application to be used in kiosk mode

To appear on top and be launched by default, an Android activity must react to the HOME intent.

AndroidManifest.xml should typically contains :

```
<activity android:name="com.my.package.MyKiosk"
    android:launchMode="singleInstance"
    <!-- "singleTask" may be used instead of "singleInstance" -->
    android:stateNotNeeded="true" <!-- optionnal -->
    <!-- other activity settings here -->
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.HOME" />
        <category android:name="android.intent.category.DEFAULT" />
    </intent-filter>
</activity>
```

For more information about the Activity settings in kiosk mode, more informations can be found here :

<http://developer.android.com/guide/topics/manifest/activity-element.html>