

Specification Sleepytux V2



I) Specification in “Natural” Text

Sleepytux V2 will permit to control the hardware of the phone automatically.

The goal is to be able to activate some component of the phone on some time.

The application should permit to make profile to enable and disable it “on fly” when you need one.

Here is an exemple of what should be possible to do:

On monday 6h stop airplane mode and go 2G, start wifi.

On monday 7h30 stop wifi, enable bluetooth (because you are going to work for exemple so you are in your car).

On monday 8h30 stop bluetooth (because you are at work so you do not need it)

on monday 12h30 put phone in vibrate (because you are eating)

on monday 13h30 put phone in normal mode.

On monday 18h enable bluetooth (to go back to home)

on monday 19h disable bluetooth and enable wifi (you are at home so you want to surf a little bit for exemple or synchronise datas)

on monday 22h30 put phone in vibrate.

On monday 23h disable wifi and put phone in airplane mode (time to sleep!!!)

II) Element that should be controllable

1) Wifi

Enable
Disable

2) GSM

Change between 2G and 3G (If I find a way to do it)
Airplane mode on/off

3) GPS (If I find how to enable/disable it)

Enable
Disable

4) Bluetooth

Enable
Disable

5) Display

Change brightness

6) Sound

Silence
Vibrate
Normal

III) Structure of data base

1) TABLE_PROFILE

Profile_id	Numeric : Primary key, auto_increment
Profile_name	String

This data base will contain all the name of the profile.

2) TABLE_Time

Time_id	Numeric : Primary key, auto_increment
Ref_profile	Reference Profile : Numeric
Day	Numeric
Time	Numeric (in ms)
Search_key	Numeric : DAY+TIME

3) TABLE_Actions

Action_id	Numeric : primary key, auto_increment
Ref_time	Numeric: Reference Time
Device	Numeric
Mode	Numeric
External	Boolean

Device:

0 GSM:

- 0 airplane on
- 1 airplane off (so return in 3 or 2 g has it was before)
- 2 2G (not sure about if I could do this)
- 3 3G (not sure about if I could do this...)
- 4 Turn off Datas
- 5 Turn on Datas

1 Wifi :

- 0 disable
- 1 enable

2 Bluetooth :

- 0 disable
- 1 enable

3 Display

Value between 0 to 100

4 Sound :

- 0 silence
- 1 vibrate
- 2 normal

5 GPS (not sure to do this because it is not easy to control it):

- 0 disable
- 1 enable

External:

0/1 it is needed to know if it is an action related to a profile, or if it is just an action that could be launched by application external!

In fact sleepytx will be able to be contrôl by external application, the application will just need to be able to start sleepytx service with an id of the “action” and then sleepytx will apply the action. The action will need to be created on sleepytx.

Just clic on external and then create one action. Keep the id, and put it on the application, and it will be apply when the application will need it. :)

4) TABLE_running

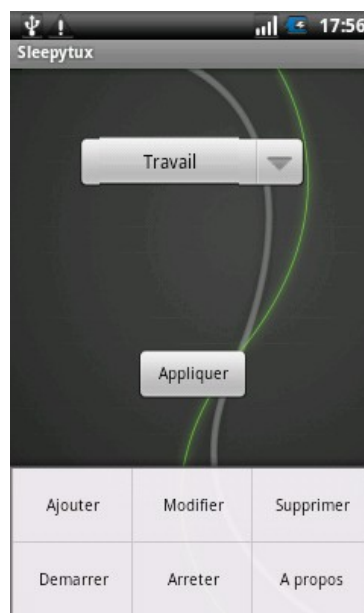
Running_id	Numeric : (will be only = 1 but to be sure...)
Profile_id	Numeric : primary key, auto_increment
Next_Time_id	Numeric
Last_update_date	Numeric : (TIME in MS)

IV) Design

1) Home

The home will be totally the same of the sleepytx V1 you apply one of the profile.
They will be the list of all the profile

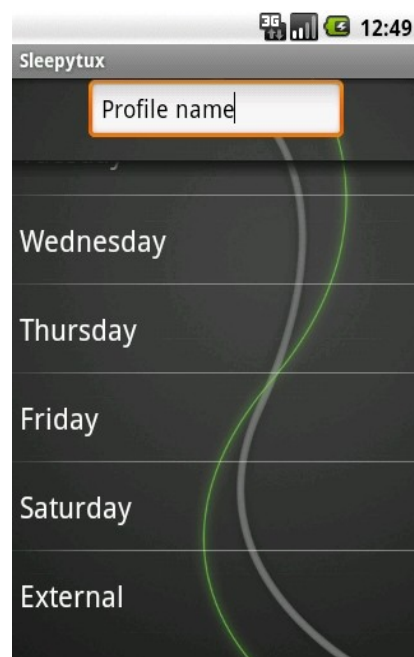
Perhaps I could add some information about the next “top” and about what will be apply on this time.



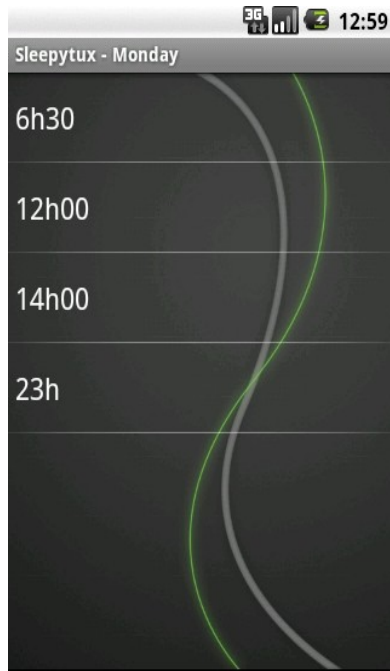
2) A profile

They will be 4 panels:

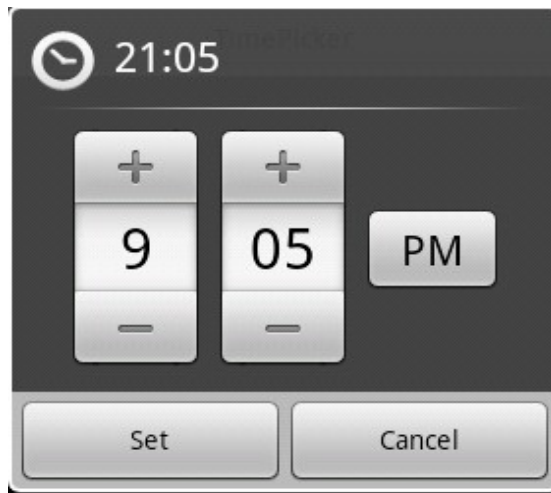
- The first will contain the name of the profile and a list will all the day. (so 7 element in the list + 1 named external for all the application who wanted to communicate with sleepytx)



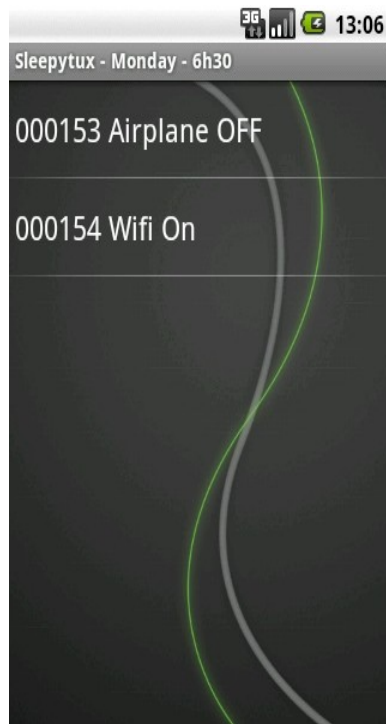
- The second will be a list with all the Time where action should be



To add an hour just clic on menu bouton and add an hour.



- The third will be the list of the action that should be apply on the time selected before



- The fourth will be the panel to add action

