




## TuxDroid Java API - Nouveautés de la 0.4

Le 4 octobre 2007 à 03:44, par .

 It took me some time but I hope it's worth it. This release now supports all TuxDroid features, even those which are not implemented yet (Sleep, ping, etc). Apart from that, the API now comes with a new TuxManager, a widgets based graphical application.

### Core API

This is mainly a reverse engineered version of the very clear Python API reworked to fit Java standards.

All TuxDroid features (motors, captors, speech, sound, system, etc..) are supported.

Mostly all useful status are accessible by a `getXXX()` and by events (classical swing system, on event, multiple listeners). To follow the daemon philosophy, getting a status is giving you the value but also generate associated event to listeners.

I rewrote the protocol engine that should be fully thread-safe now, even with re-entrance (getting a status that generate an event that is getting the same status 😊)

Lost Connection recognition and automatic reconnection.

Building process is using Maven. There is now a specific maven repository for all libraries so everything can be build from source very easily (just untar & maven compile)

JavaDoc is included with sources. It's covering about 80% of core API.

### TuxManager

A Swing application that can be seen as the merge of Python Gadget Manager and tuxgi

Core UI simply contains a Tuxlet selector, a traces output and a status bar for all important states (AC, RF, TTS, Tuxd, etc..)

All other features are wrapped in a plugin (tuxlets) system.

Tuxlet framework is included in the API).

### Tuxlets

For testing purpose, 3 "tuxlets" (gadgets) are included.

"Movement Tuxlet" : basically the same as tuxgi first pane.

"Configuration Tuxlet" : speech test and voice selection, sounds test and management, information pane just showing all Tux components versions.

"Insight Tuxlet" : just a joke to demonstrate light sensor.

More tuxlets will come later. I already wrote RSS reader, Clock and Weather. They just need a proper configuration panel

That's it for now. Just to finish a big thank you to Sonny (<http://geekrc1.free.fr>) who kindly accepted to test the beast and found nice bugs 😊