



Porting Smart-M3 platform to MeeGo OS

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Agenda

- Motivation
- Tasks & Goals
- Smart-M3 platform
- Porting Smart-M3
- SIB's configuration patch
- Launch KP component
- Conclusion



Motivation

What we have?

Smart-M3 platform:

- Linux (deb-based)
- Maemo

What we want?

- port platform to new operation system;

What we get?

- support of new developed OS;
- extend research and usage area of platform;



Tasks & Goals

The main goals:

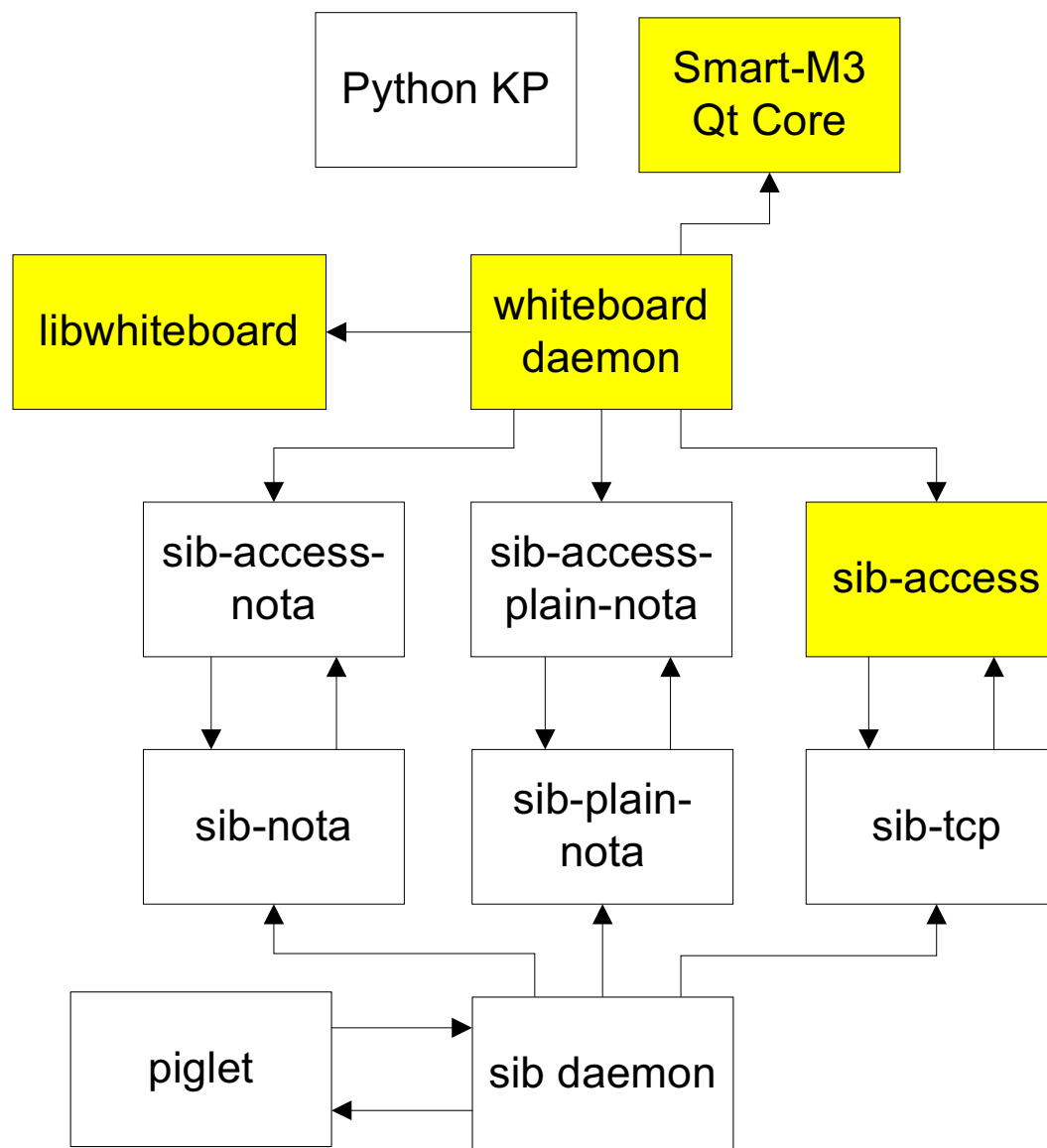
- create a client software packages of Smart-M3 platform for MeeGo OS;
- platform works properly on the MeeGo OS.

Tasks:

- investigate the mechanism of package creation on MeeGo OS;
- create client side packages of Smart-M3 platform;
- complete testing of created packages.



Smart-M3 platform



Problems and solution



- platform depend on the system components (glib, expat) and additional platform components, such as nota;
- platform don't support configuring the connection settings of SIB's.

Solution

- build and install dependence components from sources;
- write patch for this improvement.

Two ways to install Smart-M3 platform:

- build and install from sources;
- automatically installation from trusted repository packages.

Porting Smart-M3



MeeGo OS support only **RPM** packages.

Porting:

- install RPM building environment;
- write spec-file for each module package;
- make packages using these spec's-files;
- install and test client-side packages on MeeGo.

SIB's configuration patch



This feature is implemented in the sib-access module:

- feature expand function of **sib_controller.c**, that response for SIB's configuration;
- parameters of SIB configuration passed via helper file, that created by user;
- file reads in loop to additional variables and them passed to objects;
- written parameters used for SIB objects creation.

Launch client side component



1. Create SIB's configuration file in user home directory or other;
2. Run whiteboard daemon;
3. Try to connect to discovered SIB's.

```
meego@[meego-netbook-sdk]::~-$ ls
Downloads sib_ip_address sibs_conf.ini
meego@[meego-netbook-sdk]::~-$ whiteboardd
SIB's count: 2
SIB 1 configuration:
IP: 192.168.0.101
Port: 10010
Name: TestServer
Uri: X

SIB 2 configuration:
IP: 127.0.0.1
Port: 10010
Name: LocalServer
Uri: Y
```



Conclusion

Results

- investigated mechanism of management and creation packages for MeeGo OS;
- created RPM components for each ported module and RPM packages for client modules of Smart-M3 platform;
- portable components successfully tested on special developed demo application and ready to work on MeeGo OS.
- patch for SIB's configuration parameters.

Links

- Project bugtracker: <http://osll.spb.ru/projects/msc-yudenok>
- Project wiki: <http://osll.spb.ru/projects/msc-yudenok/wiki>
- Project files: <http://osll.spb.ru/projects/msc-yudenok/files>



Questions, Suggestions & Answers

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