Ofono, DBus and D-feed

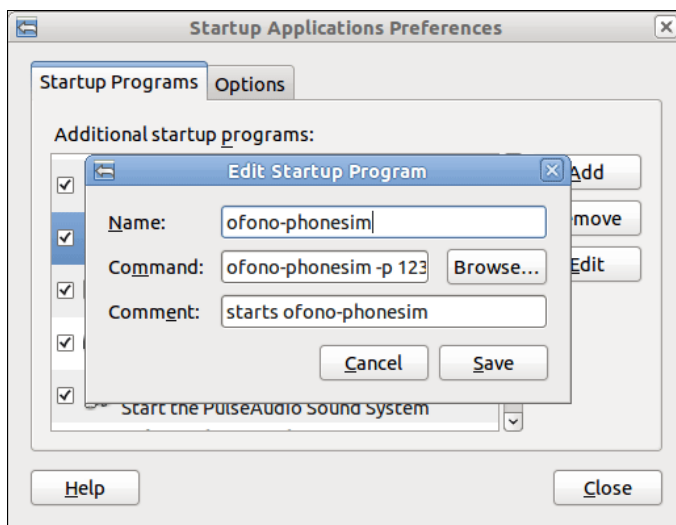## Ofono

Install *ofono-phonesim*. To avoid starting *ofono-phonesim* each time when starting the operating system, add the following line

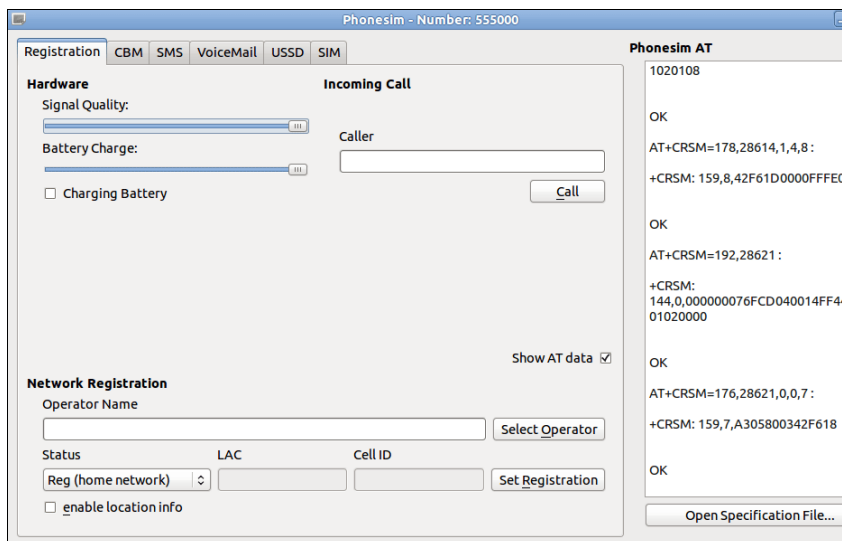ofono-phonesim -p 12345 -gui /home/christoph/angstrom/default.xml

(adjust it to meet your system specific needs) to your startup applications.

>> System / Preferences / Startup Applications

Enter

dbus-send --print-reply --system --dest=org.ofono /phonesim org.ofono.Modem.SetProperty string:"Powered" variant:boolean:"true" to test ofono and to turn the modem on.
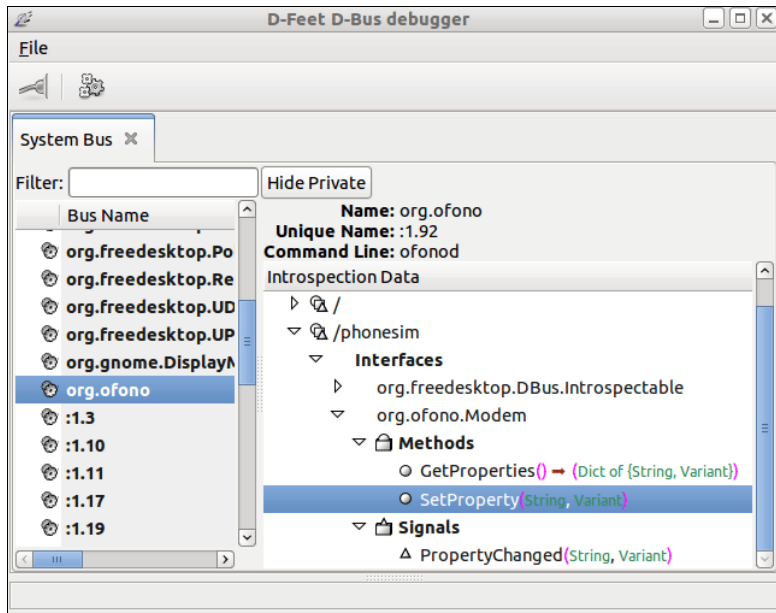
Dial a number

dbus-send --print-reply --system --dest=org.ofono /phonesim org.ofono.VoiceCallManager.Dial string:"012345" string:"default"

D-feed

Install d-feet the D-Bus debugger and create a System Bus to check the *org.fono* connection:

Additional Ofono commands

```
1  #modem activated?
2  $ dbus-send --print-reply --system --dest=org.ofono /
       phonesim0 org.ofono.Modem.GetProperties
3  #activate modem
4  $ dbus-send --print-reply --system --dest=org.ofono /
       phonesim0 org.ofono.Modem.SetProperty string:"Powered"
       variant:boolean:"true"
5  #dial a number
6  $ dbus-send --print-reply --system --dest=org.ofono /
       phonesim0 org.ofono.VoiceCallManager.Dial string:"012345"
        string:"default"
7  #auflegen
8  $ dbus-send --print-reply --system --dest=org.ofono /
       phonesim0 org.ofono.VoiceCallManager.HangupAll
```

Create CPP files out of the XML files

See *Group-Project.pdf* page 14 and following.

1.) Power up the "phone":

```
sudo dbus-send --print-reply --system --dest=org.ofono /phonesim
org.ofono.Modem.SetProperty string:"Powered" variant:boolean:"true"
```

2.) Enter:

```
dbus-send --print-reply --system --dest=org.ofono /phonesim
org.freedesktop.DBus.Introspectable.Introspect > ofono.xml
```

Open the generated *ofono.xml* and remove some debug information at the beginning and end of the file. Match unknown types to the appropriate Qt types. The method argument a{sv} is unknown so we add an annotation how to match this to a Qt type.

3.) Create proxy classes:

```
1 qdbusxml2cpp -p OfonoModem ofono.xml org.ofono.Modem
2 qdbusxml2cpp -p OfonoSimManager ofono.xml org.ofono.SimManager
3 qdbusxml2cpp -p OfonoVoiceCallManager ofono.xml org.ofono.VoiceCallManager
```