

# Installing CCGX functionality on a raspberry pi

(in progress, everybody reading this page, feel free too add and improve)

## Steps

### 1. Install daemontools

[Daemontools](#) is a set of tools to run services: it runs an executable, and when it fails it will start it again. To see some commonly used commands, like starting and stopping a service, or seeing status of all services, check the [CCGX command-line introduction](#).

To install daemontools follows [the instructions on its install page](#), with one addition: right before running `/package install`, there is one change that is necessary to make it compile:

open `conf-cc` in `./src`, and add the following parameter to the gcc call:

```
-include /usr/include/errno.h
```

Daemontools will now be running, to make sure check the processlist:

```
pi@raspberrypi ~ $ ps ax | grep svscan
2171 ?        Ss        0:00 /bin/sh /command/svscanboot
2173 ?        S         0:00 svscan /service
2260 pts/0    S+        0:00 grep --color=auto svscan
```

But is not doing anything yet, as there are no services setup in `/service` yet.

### 2. Install the dbus-cli

[dbus-cli](#) is a command line interface to dbus. Very useful to play with and debug all the different CCGX services. To find what D-Bus is, read the [CCGX introduction](#) and look on Google. See [CCGX commandline intro](#) for basic usage.

First, get the code from above, and put it somewhere in the path.

Then, get some dependencies, first install pip, the python installer:

```
sudo apt-get install python-pip
```

Then install lxml, which is needed by dbus-cli:

```
sudo apt-get install libxml2-dev libxslt1-dev python-dev
```

```
sudo pip install lxml
```

Done! If all works, you'll be able to run dbus -y from the commandline:

```
pi@raspberrypi ~ $ dbus -y  
org.freedesktop.DBus
```

### 3. Install dbus-modbus tcp

[dbus-modbus tcp](#) is a modbus tcp server, that allows for example PLCs to get data (battery voltage, etc.) from the D-Bus.

Install the qt libraries:

```
sudo apt-get install libqt4-dev
```

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