

Ideasilo

Installation instructions

Installing Ideasillo on Nokia 770

This document describes the actions required to make Ideasillo work on the Nokia 770

Flashing the Nokia 770

By default the USB port in N770 is in client mode, which means that the device is unable to process connections with other USB devices working in client mode. In order to make N770 work in host mode, the device must be reflashed with an additional switch. Note that because the reflash process erases all changes to the file system, this step must be done first. Also note that after enabling the USB host mode, the device cannot be used as a client mode without a modified USB cable.

Alternative way to transfer the necessary files is via the WLAN connection, using the built in browser or ssh tools.

The necessary tools and images can be downloaded from:

<http://maemo.org/development/sdks/maemo-2-2--gregale-.html>

- 1 Download the `flasher-3.0` tool
 - 1.1 Mark the file as an executable with command:
`chmod u+x flasher-3.0`
- 2 Download the *Internet Tablet OS 2006 image*.
 - 2.1 In order to get access to the image file, you need the product code from underneath the battery in N770.
 - 2.2 Download the latest image file
(`SU-18_2006SE_3.2006.49-2_PR_F5_MR0_ARM.bin` by the time of writing.)
- 3 Turn off the device
- 4 Connect the N770 to the PC using an USB cable. Note that the flasher tool does not work through a USB hub.
- 5 Enter the following command:
`./flasher-3.0 --enable-usb-host-mode --enable-rd-mode -f -R -F <image file from 2.2>`
- 6 Turn on the N770 and wait until the device is flashed. The device should reboot automatically.

Configuring the Nokia 770

Because the current version of Ideasillo is not yet able to make all the necessary configurations to the system by installing a single package, some changes need to be done manually.

Enabling R&D mode

Enabling R&D mode in the N770 removes various built-in restrictions, allowing greater control over the device. R&D mode is necessary for installing many of the packages in the following

sections.

1. Open application manager.
2. Select *tools->application catalogue* from the menu.
3. Select *new*.
4. Type 'matrix' in the *web address* field.
5. DON'T select ok, select *cancel*.
6. It's red.

Installing some necessary software:

1. In application manager, *select tools->application catalogue*.
2. Type in some new repositories:
 - `http://repository.maemo.org/extras`
 - `distribution: 'mistral', components: 'free non-free'`
 - `http://repository.maemo.org/extras`
 - `distribution: 'gregale', components: 'free non-free'`
 - `http://repository.maemo.org/contrib`
 - `distribution: 'gregale', components: 'free non-free'`
 - `http://maemo-hackers.org/apt`
 - `distribution: 'mistral', components: 'main'`
3. Update the package list.
4. Install *osso-xterm*, and make sure it's version 0.13.mh24 and NOT 0.13.
5. Install *dropbear-server* and *dropbear-client* if case you need ssh connection for example for file transfers.

Obtaining root privileges

1. Open the extras->X terminal from under the application menu.
2. If you entered the `--enable-rd-mode` switch during the flash process, you can gain root privileges by typing:

```
sudo /usr/sbin/gainroot
```
3. Alternative way of obtaining root privileges is to log in to the device via ssh connection as 'root' and entering 'rootme' as the password:

```
ssh root@localhost
```

Obtaining the necessary installation files

Using the built in web browser, browse to the web page where the installation files are kept.

Download the following files:

- `libglade2-0_<version>_armel.deb`
- `ideasilo_<latest version>_armel.deb`

If the browser insists on opening the files in text mode, without giving you the opportunity to save the file manually, wait until the transfer is complete and save the file somewhere in the file system

by selecting web page->save as from the browser application menu. Take note that the root directory visible in the file manager is actually the folder

`/home/user/MyDocs/.documents`

Installing ideasilo:

The required installation packages for Ideasilo and the libraries it depends on can be fetched from the internet by for example, using the built in internet browser in the N770.

1. Using the built in file manager, find the folder where you downloaded the deb files
2. You can install the files by clicking on the deb files. The application manager should open automatically. Make sure you install *libglade* before *ideasilo*.
3. Ideasilo can be found in the application menu in the *extras* category.