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# **Domodroid**

***Release 1.3 beta***

December 08, 2016



<b>1 Domodroid</b>	<b>1</b>
1.1 Overview . . . . .	1
1.2 End User Documentation . . . . .	1
1.3 Development Documentation . . . . .	1
<b>2 Detailed</b>	<b>3</b>
2.1 General . . . . .	3
2.2 Widgets . . . . .	3
2.3 Camera . . . . .	3
<b>3 Installation</b>	<b>5</b>
3.1 PlayStore version . . . . .	5
3.2 Github version . . . . .	5
3.3 F-Droid version . . . . .	5
3.4 Version in about . . . . .	5
3.5 Develop version . . . . .	7
<b>4 Nightly Builds</b>	<b>9</b>
<b>5 Configuration</b>	<b>11</b>
<b>6 Sync</b>	<b>13</b>
6.1 Domogik 0.4 (API version >6) . . . . .	13
6.2 Domogik 0.3 (API version >5) . . . . .	13
6.3 Domogik 0.2 (API version <=5) . . . . .	14
<b>7 STATS</b>	<b>15</b>
<b>8 ABOUT</b>	<b>17</b>
<b>9 Usage</b>	<b>19</b>
<b>10 Developers note</b>	<b>21</b>
<b>11 Developers configuration</b>	<b>23</b>
11.1 TABLE STRUCURE . . . . .	23
<b>12 Developers environnement</b>	<b>25</b>



## 1.1 Overview

- [Quick](#)
- [Detailed](#)
- [Map](#)

## 1.2 End User Documentation

- [Installation](#)
- [Configuration](#)
- [Options](#)
- [Sync](#)
- [House Organization](#)
- [Statistics](#)
- [Usage](#)
- [Nightly builds](#)

## 1.3 Development Documentation

- [Developers documentation](#)



Domodroid BETA 1.4 provides plenty of features:

## **2.1 General**

Multi display compatibility (Smartphone and Tablet)

Easy configuration: Set your RINOR IP/URL access and synchronize

Domogik could be install behind a proxy with http auth for security

A new feature register to Domogik event to update in real time or via the MQ

Power Management control keeping your screen on during the use of Domodroid

Full icon pack supported

## **2.2 Widgets**

lots of animated widgets

Auto-Updated with an asynchronous threading system and in real time with event or MQ

Data widget with 2d chart engine

A longClick on an area, room or widget allow you to change his icon, rename it, remove it or move it up or down.

## **2.3 Camera**

Mjpeg Stream supported

Framerate counter

To use the camera streaming feature, the Camera plugin has to be installed in Domogik.

If none of your camera stream Mjpeg datas, you can use Zoneminder which is a free video camera security application that encode many kind of video stream format to mjpeg stream.





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## **Installation**

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### **3.1 PlayStore version**

Current Beta 1.3 is on the Google playstore here:

<https://play.google.com/store/apps/details?id=org.domogik.domodroid13>

### **3.2 Github version**

On Github release for each version here:

<https://github.com/domogik/domodroid/releases>

### **3.3 F-Droid version**

On F-Droid also for those who doesn't want to go to google store:

<https://f-droid.org/repository/browse/?fdid=org.domogik.domodroid13>

### **3.4 Version in about**

To know witch version you're using, you could use the "About" menu it's write behind the rev number.

There is also the Domogik version in the example above 0.3

For example in this view the Dev version is 2 but it should look more like 1.4\_android\_studio Rev\_13 or 336:9c0ad72e15:

D·M·D



# Domodroid

Domodroid free Android application under GNU GPLv3  
Licence and developed by Pierre Lainé  
Modified by Dominique DAMBRAIN  
Maintain by new.domodroid@gmail.com

Dim the lights, get information's about the inside  
temperature or the outside humidity, all with a single tap  
on your Android device. Requires a home automation  
system and a Domogik server. Domodroid offers you  
control of your Domogik home automation system with a  
large variety of devices supported

Domogik Project : <http://www.domogik.org/>

Follow-us on twitter :

<https://twitter.com/domogik>

<https://twitter.com/newdomodroid>

Domodroid documentation is available at:

<http://domodroid.readthedocs.org/>

Translate by transifex here:

<https://www.transifex.com/tikismoke-domodroid/>

org.domogik.domodroid13 1.4\_android\_studio Rev\_19

## 3.5 Develop version

If you wish to use the current developer version:

Since ~10/2015 domodroid is develop with Android Studio.

Use the github branch 1-4-android\_studio: [https://github.com/domogik/domodroid/tree/1-4-android\\_studio](https://github.com/domogik/domodroid/tree/1-4-android_studio)

get the source and compile it on your own machine.

Previous Branch where used with Eclipse and a nightly builds mechanism no more actual.

You need to allow unknown source

Download the last apk from <http://repo.domogik.org/domodroid-nightly/> if the apps didn't work (because of nightly build) ask a working version to somebody on irc #domogik-domodroid.

Just copy/paste the apk you've just download

Open it from your device and install it.



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## Nightly Builds

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Since ~10/2015 domodroid is develop with Android Studio.

It's no more true until we find time an volunteer to make it works.

Nightly builds were Android apk available at:

<http://repo.domogik.org/domodroid-nightly/>

They're build every night and can be build by developers at any time with a special link.

You should use the last one to be sure having last update.

If you find a bug or want an evolution don't forget to tell us which version it is.

You can use the Tracker at: <https://github.com/domogik/domodroid/issues> to submit anythings.



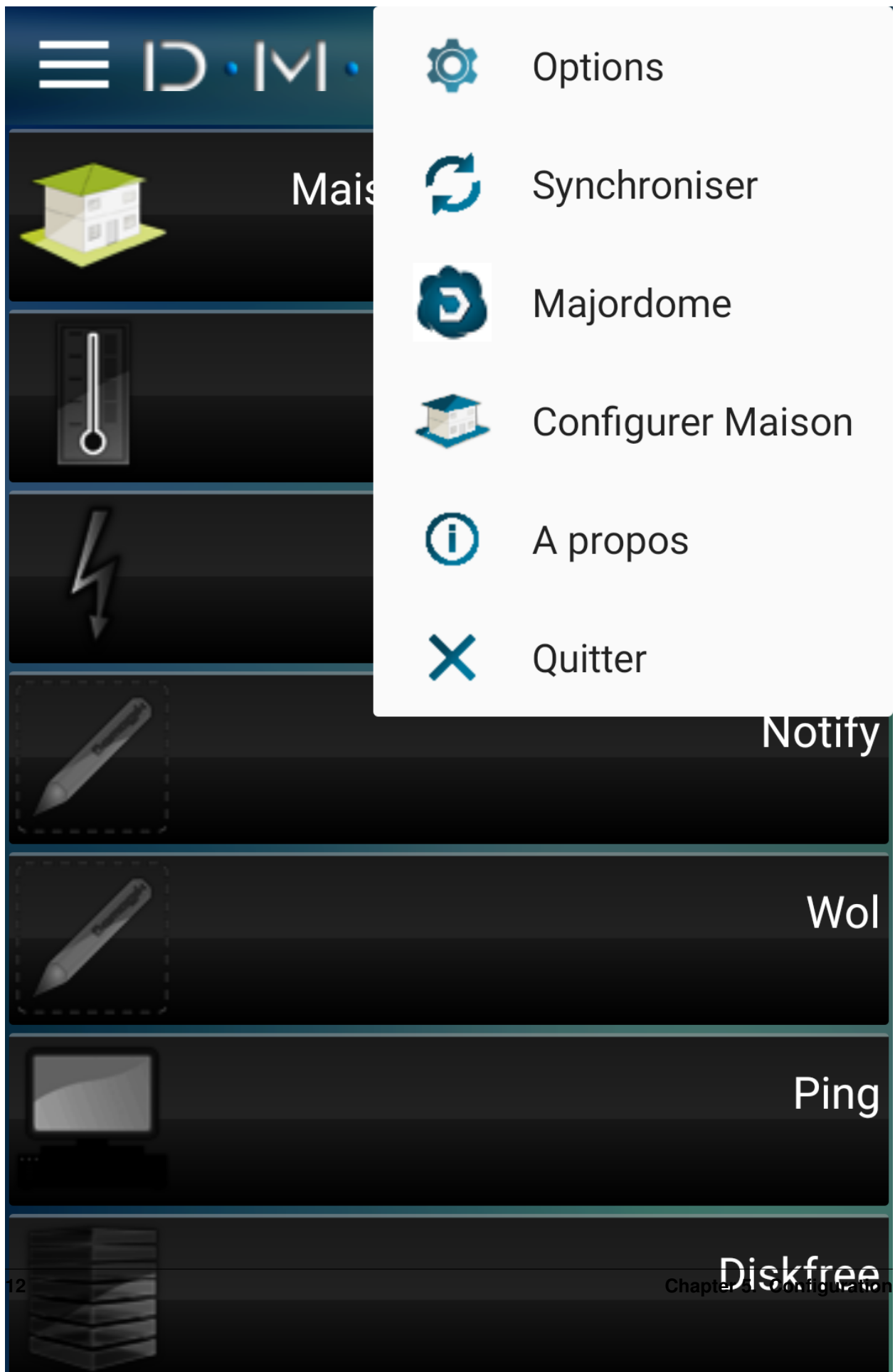
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# Configuration

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In the menu you have choice of:

- Access to options
- [Sync with domogik server](#)
- Talk with Buttler if sync with a domogik 0.4 and more
- Organize your house
- [See statistics about exchange with the server \(Stats and Events\)](#)
- [Open about view](#)
- Exit





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## Sync

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When you click on Sync button, Domodroid will attempt to contact your Domogik server with the configuration previously entered.

By the past this was erasing every data and get new one. This including the loss of personal house re-organisation. It's solved since version 14.

A default area is created at top of house. It contains the domogik information. You can safely delete it after the sync and create your house organisation like you want. At next sync, the default area will be recreated but you do not lost your personal organisation. Only no more existing device/sensor/command in domogik will be removed from domodroid.

Sync is done in further steps depending of your version of domogik:

### 6.1 Domogik 0.4 (API version >6)

- It get a json containing device and feature from:

<http://yourIP:YourPort/device>

<http://yourIP:YourPort/datatype>

If it works, progress goes to 55%.

Progress from 55 to 100 are internal domodroid table construction.

Progress goes to 100% HOURRA!!

- Just after this process ended, domodroid will start the cache engine. Depending of the number of feature and the speed of your connection it could takes seconds to minutes.

### 6.2 Domogik 0.3 (API version >5)

- It get a json containing list of feature from:

<http://yourIP:YourPort/base/feature/list>

If it works, progress goes to 25%.

- It creates Base House containing only one area named "USAGE":

If it works, progress goes to 45%.

- It creates room named "USAGE" in the Area, and prepare feature\_associationList:

Feature\_association\_list will make the relation between a device (sensor or command) and the place where it will be displayed (Base, Area or Room).

If it works, progress goes to 55%.

- Then for each feature get from domogik:

It will look for his usage to create a room names by it's usage.

Create the feature and his feature association in the room.

If it works, progress goes to a value depending of the number of feature.

- Domodroid put all data needed in AndroidSharedPreferences to use them later.
- Erase the internal DB and replaced it by new value.
- Create the UPDATE\_URL used for cache Engine:

Looks like [http://YourIP:YourPort/stats/multi/""device\\_ID1""device\\_State1""device\\_ID2""device\\_State2""device\\_ID...""device\\_State...](http://YourIP:YourPort/stats/multi/)

Each device\_ID and State comes from list of feature.

Progress goes to 100% HOURRA!!

- Just after this process ended, domodroid will start the cache engine. Depending of the number of feature and the speed of your connection it could takes seconds to minutes.

## 6.3 Domogik 0.2 (API version <=5)

It his not the same process as domogik handle the house structure.

- Domodroid grab area list:

From <http://YourIP:YourPort/base/area/list/>

If it works, progress goes to 20%.

- Domodroid grab room list:

From <http://YourIP:YourPort/base/room/list/>

If it works, progress goes to 40%.

- Domodroid grab feature list:

From <http://YourIP:YourPort/base/feature/list/>

If it works, progress goes to 60%.

- Domodroid grab feature\_association list:

From [http://YourIP:YourPort/base/feature\\_association/list/](http://YourIP:YourPort/base/feature_association/list/)

If it works, progress goes to 80%.

- Domodroid grab icon list:

From [http://YourIP:YourPort/base/ui\\_config/list/](http://YourIP:YourPort/base/ui_config/list/)

If it works, progress goes to 100%.

- Put all data into Android SharedPreferences then to DB like before.
- Just after this process ended, domodroid will start the cache engine. Depending of the number of feature and the speed of your connection it could takes seconds to minutes.

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### STATS

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Domodroid contain a mechanism witch record number and size of events and stats send and received.

(Not working in current version)

This view display them (maybe it could help you to see what's wrong):

        <b>19:49</b>					
ID · M · ID					
Echanges avec serveur Domogik					
Activité cumulée :		33 mn 42 sec		Dernière Période :	
				7 mn 45 sec	
			Emis	Reçus	
					Emis Reçus
STATS	Paquet	5	2	STATS	Paquet 3 0
	s				s
	Octets	5420	43534		Octets 3252 0
EVEN	Paquet	181	180	EVEN	Paquet 18 18
TS	s			TS	s
	Octets	11399	27776		Octets 1277 2768

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### ABOUT

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This view display The About information including the changelog.

What's important here his the value at the bottom of the view:

- Domodroid complete version code and name.
- Domogik Version code.

It could help to see witch version you are using.

D·M·D



# Domodroid

Domodroid free Android application under GNU GPLv3  
Licence and developed by Pierre Lainé  
Modified by Dominique DAMBRAIN  
Maintain by new.domodroid@gmail.com

Dim the lights, get information's about the inside  
temperature or the outside humidity, all with a single tap  
on your Android device. Requires a home automation  
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org.domogik.domodroid13 1.4\_android\_studio Rev\_19

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### Usage

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There is 2 usage of domodroid depending what domogik version you are using.

In case you're using domogik 0.2 the Main screen is organize by Room.

In domogik 0.3 (and later) Room are now include in Domoweb UI no more in Domogik the Main screen is organize by usage/device.

In both case the map view is the same.



If device description is not empty it will replace the device name displayed

Longclick on a layout (area,room,widget) open a menu that allow you to rename, change icon or remove the selected item.





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### Developers note

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- [Setting up your environment](#)
- [Developers Documentation](#)



## Developers configuration

**activities/Graphics\_Manager.java** It is called to get the right icons in function of the device state. In widget mode, case 0 is used for off, case 1 for 50%, case 2 for on and case 3 for undefined. In map mode, case 0 is for of and case 1 for on. All case depending of device usage.

**activities/Activity\_About.java** It open the layout About and adapt it to get version code/name and package name This is to help developers with nightly build and finally with real version to be sure what version user are running.

### 11.1 TABLE STRUCURE

- The First 3 DB are only used to organize Domodroid House structure and display:

As Area and Room contains same information they could be optimize in next version with a new field for each type...

<div>table_area</div> <div>description</div> <div>id</div> <div>name</div>	table	field	TEXT
		field	INTEGER
		field	TEXT
<div>table_room</div> <div>area_id</div> <div>description</div> <div>id</div> <div>name</div>	table	field	INTEGER
		field	TEXT
		field	INTEGER
		field	TEXT
<div>table_icon</div> <div>name</div> <div>value</div> <div>reference</div>	table	field	TEXT
		field	TEXT
		field	INTEGER

- This DB contain list of feature available in your domogik server:

table	feature	field	type
device_feature_model_id	field	TEXT	
id	field	INTEGER	
device_id	field	INTEGER	
device_usage_id	field	TEXT	
address	field	TEXT	
device_type_id	field	TEXT	
description	field	TEXT	
name	field	TEXT	
state_key	field	TEXT	
parameters	field	TEXT	
value_type	field	TEXT	

An example:

device feature model id	id	device id	device usage id	address	device type id	description	name	state key	parameters	value type	
rfid.mirror_tag.present	4	4	nanotag	00000E	ie0000	rfid.mirror_tag	Lapin vert oreille rou	Nanoz vert	present	{&quot;value0&quot;:&quot;low&quot;,&quot;value1&quot;:&quot;high&quot;}	boolean
rfid.mirror_base.activated	3	3	mirror			rfid.mirror_base	mirror	activated	{&quot;value0&quot;:&quot;low&quot;,&quot;value1&quot;:&quot;high&quot;}	boolean	
rfid.mirror_tag.present	5	5	nanotag	000C	:110090000	rfid.mirror_tag	Nanoz rouge oreille	Nanoz rouge	present	{&quot;value0&quot;:&quot;low&quot;,&quot;value1&quot;:&quot;high&quot;}	boolean
rfid.mirror_tag.present	6	6	nanotag	000008d0	51d270000	rfid.mirror_tag	Ztamp vert	Ztamp vert	present	{&quot;value0&quot;:&quot;low&quot;,&quot;value1&quot;:&quot;high&quot;}	boolean
rfid.mirror_tag.present	7	7	nanotag	000008d0	00000000	rfid.mirror_tag	Ztamp orange	Ztamp orange	present	{&quot;value0&quot;:&quot;low&quot;,&quot;value1&quot;:&quot;high&quot;}	boolean
rfid.mirror_tag.present	8	8	nanotag	0000C	b940000	rfid.mirror_tag	Ztamp jaune	Ztamp jaune	present	{&quot;value0&quot;:&quot;low&quot;,&quot;value1&quot;:&quot;high&quot;}	boolean
computer.disk_usage.free_space	87	41	server	/home		computer.disk_usage	SDA6	free_space	{&quot;unit&quot;:&quot;k&quot;}		number
computer.control.wol	11	11	server	serveur		computer.control	Serveur		{&quot;command&quot;:&quot;wol&quot;}		trigger
computer.control.ping	12	11	server	serveur		computer.control	Serveur	ping	{&quot;output&quot;:&quot;&quot;,&quot;value0&quot;:&quot;low&quot;}		boolean
computer.control.wol	13	12	computer	j		computer.control	Pc		{&quot;command&quot;:&quot;wol&quot;}		trigger
computer.control.ping	14	12	computer	j		computer.control	Pc	ping	{&quot;output&quot;:&quot;&quot;,&quot;value0&quot;:&quot;low&quot;}		boolean
service.teleinfo.instant_power_3	39	15	electricity	teleinfo		service.teleinfo	teleinfo	inst3	{&quot;unit&quot;:&quot;A&quot;}		number
service.teleinfo.instant_power_2	38	15	electricity	teleinfo		service.teleinfo	teleinfo	inst2	{&quot;unit&quot;:&quot;A&quot;}		number
service.teleinfo.instant_power_1	37	15	electricity	teleinfo		service.teleinfo	teleinfo	inst1	{&quot;unit&quot;:&quot;A&quot;}		number
service.teleinfo.hourly_group	36	15	electricity	teleinfo		service.teleinfo	teleinfo	hhphc	{}		string
service.teleinfo.apparent_power	35	15	electricity	teleinfo		service.teleinfo	teleinfo	papp	{&quot;unit&quot;:&quot;W&quot;}		number
service.teleinfo.tariff_period	34	15	electricity	teleinfo		service.teleinfo	teleinfo	ptec	{}		string
service.teleinfo.peak_hours	33	15	electricity	teleinfo		service.teleinfo	teleinfo	hchp	{&quot;unit&quot;:&quot;Wh&quot;}		number
service.teleinfo.off_peak_hours	32	15	electricity	teleinfo		service.teleinfo	teleinfo	hdhc	{&quot;unit&quot;:&quot;Wh&quot;}		number
service.teleinfo.instant_power	31	15	electricity	teleinfo		service.teleinfo	teleinfo	inst	{&quot;unit&quot;:&quot;A&quot;}		number
service.teleinfo.max_power	30	15	electricity	teleinfo		service.teleinfo	teleinfo	imax	{&quot;unit&quot;:&quot;A&quot;}		string
service.teleinfo.max_power_1	40	15	electricity	teleinfo		service.teleinfo	teleinfo	imax1	{&quot;unit&quot;:&quot;A&quot;}		number
service.teleinfo.max_power_2	41	15	electricity	teleinfo		service.teleinfo	teleinfo	imax2	{&quot;unit&quot;:&quot;A&quot;}		number
service.teleinfo.max_power_3	42	15	electricity	teleinfo		service.teleinfo	teleinfo	imax3	{&quot;unit&quot;:&quot;A&quot;}		number
onewire.thermometer.temperature	43	16	temperature	4B3A2C030000		onewire.thermomete	Température exterie	temperature	{&quot;unit&quot;:&quot;°C&quot;}		number

- This one contains the feature and a place to display it (Base, Area or Room)

table	feature_association	field	type
place_id	field	INTEGER	
place_type	field	TEXT	
device_feature_id	field	INTEGER	
id	field	INTEGER	
device_feature	field	TEXT	

- Same but for the map mode with position on X and Y axis:

table	feature_map	field	type
id	field		
posx	field	INTEGER	
posy	field	INTEGER	
map	field	TEXT	

- The state his no more used by Domodroid with the cache engine but it his still here:

table	feature_state	field	type
device_id	field	INTEGER	
key	field	TEXT	
value	field	TEXT	

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## Developers environnement

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You can use a lot of tools.

Since 12/2015 we migrate to Android Studio for development. Still using API 8 from android to ensure largest device compatibility.

You will need Java JDK superior to 7.

Android studio will fail to correctly set projet. You have to import it using github in android studio then configure the modules in project structure.

First remove default module names domodroid. Add a new module select Api 8 platform in Module SDK. Names id as you want (domodroid or main or ...). In content root select: your pathdomodroidDomodroidsremain as root content.

In this module select gen and java as source, and add a java libs in dependencies domodroidDomodroidlibs.

Now you can android structure in this module, selecting the right manifest res assets and libs (they sould be automatically add with correct path this time).

**3 libs are used:** The android appcompat, for navigation drawer and other stuff;

    jeroMQ to make domodroid compatible with domogik MQ;

    Achartengine is used to make graph;

Until version 11

ECLIPSE is only one of them, but you can use a simple text editor if you want.

Install Google SDK

Configure it to use git at this adress: <https://github.com/domogik/domodroid>

If you have right access to the domodroid github source to write. Install Egit plugin in Eclipse. You need to add an ssh key to your account and add it to the Egit conf. Once it his done import the project with ssh using “git” as username without password: `ssh://git@github.com/domogik/domodroid`