

Domoticz

Open Source Home Automation System

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Introduction

Domoticz is a Home Automation system design to control various devices and receive input from various sensors.

For example this system can be used with:

- Light switches
- Door sensors
- Doorbells
- Security devices
- Weather sensors like: UV/Rain/Wind Meters
- Temperature Sensors
- Pulse Meters
- Voltage / AD Meters
- And more ...

System Requirements

This system is designed to run on most common hardware, this includes:

- **Raspberry Pi (Recommended, Model B/2 advised)**
- Cubieboard
- Unix
- Apple
- Windows

256MB memory recommended, 200MB free hard disk space, Firefox/Chrome/Safari browser.
A screen resolution SXGA = 1280x1024 or higher is recommended.

If you want to use Internet Explorer, you need version 10+.

Hardware

There are various hardware components that the system can use. Some are specifically made for the Raspberry Pi.

- RF 433Mhz - RFXCOM RFXtrx433, <http://www.rfxcom.com>¹
- RF Z-Wave - Razberry Z-Way <http://razberry.z-wave.me>¹
- RF Z-Wave – OpenZWave, Aeon ZStick <http://aeotec.com/z-wave-usb-stick>¹
- P1 Smart Meter (serial)²
- YouLess Energy Meter <http://www.youless.nl>
- TE923 Weather Station (Hideki weather station like IROX Pro X, Mebus TE923 or TFA Nexus) <http://www.tdressler.net/ipsymcon/te923.html>³
- Davis Vantage Weather Station (with USB connector)
- Rego 6XX (serial) <http://rago600.sourceforge.net>
- Voltcraft CO-20 Air Quality meter <http://www.conrad.com/ce/en/product/101316/Voltcraft-CO-20-USB-Air-Quality-Sensor>
- 1-Wire (OWFS, or direct on the Raspberry Pi)
- BMP085 I2C Temp+Baro sensor <http://learn.adafruit.com/using-the-bmp085-with-raspberry-pi/overview>
- Weather Underground (If you do not want to own your own weather station) <http://www.wunderground.com/>
- PiFace Raspberry Pi IO Expansion board <https://www.sparkfun.com/products/11772>
- S0 Pulse Meter²
- EnOcean (At the moment only with Protocol version2, FAM-USB stick)
- SolarEdge single phase inverters with TCP (aka SE5000)

¹ Consult the hardware manufactures website for supported devices.

² Prefabbed cables available at <http://www.smartmeterdashboard.nl/webshop>

³ Only supported under Unix at the moment

Installation

Please consult the wiki pages for details.

http://www.domoticz.com/wiki/Main_Page

Raspberry Pi

The easiest way to get started is to download the SD Card image from sourceforge.

<http://sourceforge.net/projects/domoticz/files/>

Unix/Linux/Raspberry Pi/...

See the Install.txt file for installation/compile instructions.

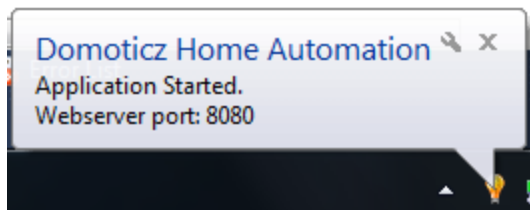
Windows Users

An installer is provided for easy installation.

<http://sourceforge.net/projects/domoticz/files/>

When updating the software, do not uninstall, just reinstall, or the central database is deleted!

When the application is started under Windows, a system tray popup message will display the port used to connect to:



Usage

The core application runs at the background, and has a web-based user interface.

The default port of the web interface is 8080. For a local setup you can connect to <http://127.0.0.1:8080>

To access the system from a remote location, consult your router manual to forwarding/NAT a port to your system.

Navigation



Navigation is done by pressing the tabs at the top of the webpage.

Most tabs are automatically refreshed every 10 seconds. (Except Devices/Hardware/Setup)

Command Line parameters

The following command line parameters are available:

- www port (for example -www 8080)
- dbase file_path (for example D:\domoticz.db or /opt/domoticz/domoticz.db)
- verbose x (where x=0 is none, x=1 is debug)
- startupdelay seconds (default=0)
- nowwwpwd (in case you forgot the webserver username/password)
- nobrowser (do not start web browser) (**Windows Only**)
- log file_path (for example D:\domoticz.log)

Unix Startup Script

To start Domoticz automatically when the system starts perform the following steps:

```
sudo cp domoticz.sh /etc/init.d
sudo chmod +x /etc/init.d/domoticz.sh
sudo update-rc.d domoticz.sh defaults
```

Edit the startup script and point the DEAMON location to point to the installation folder:

```
sudo vi /etc/init.d/domoticz.sh
```

```
DAEMON=/home/pi/domoticz/domoticz
```

If you want to use another web interface port change:

```
OPTIONS="-www 8080"
```

You can now start domoticz with:

```
/etc/init.d/domoticz.sh start
```

To stop:

```
/etc/init.d/domoticz.sh stop
```

To check if Domoticz is running:

```
/etc/init.d/domoticz.sh status
```

If your system supports it you can also do

```
sudo service domoticz.sh start
sudo service domoticz.sh stop
sudo service domoticz.sh status
```

To update when you have installed it as startup service:

```
cd /home/pi/domoticz (or where you installed domoticz)
svn update
make
sudo service domoticz.sh restart
```


Hardware Setup

Before you can use the application to control devices you must setup the communication hardware device(s).



The following devices are supported:

- RFXCOM - RFXtrx315 USB 310Mhz or 315Mhz Transceiver
- RFXCOM - RFXtrx433 USB 433.92Mhz Transceiver
- RFXCOM – RFXtrx connected to a LAN-USB interface
- Domoticz - Remote Server
- P1 Smart Meter USB cable
- P1 Smart Meter connected to a LAN-USB interface
- YouLess Meter with LAN interface
- TE923 USB Compatible Weather Station
- Rego 6XX (serial)
- Voltcraft CO-20 Air Quality meter
- 1-Wire (OWFS, or direct on the Raspberry Pi)
- BMP085 I2C Temp+Baro sensor
- Weather Underground
- PiFace Raspberry Pi IO Expansion board
- S0 Pulse Meter 2
- EnOcean (At the moment only with Protocol version 2)

Setting up a USB device

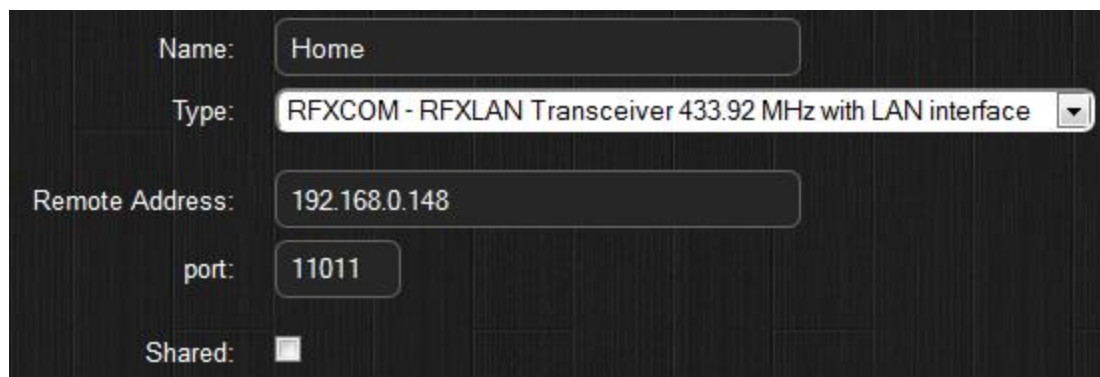
First make sure the device is recognized in the system.

Domoticz automatically detects the USB port.



Setting up a LAN device

First make sure you know the IP address and port of the device.



A screenshot of a web form for adding a LAN device. The form has a dark background with light-colored text and input fields. The fields are: 'Name' with the value 'Home', 'Type' with a dropdown menu showing 'RFXCOM - RFXLAN Transceiver 433.92 MHz with LAN interface', 'Remote Address' with the value '192.168.0.148', 'port' with the value '11011', and 'Shared' with an unchecked checkbox.

Sharing Devices

It is possible to share your (Domoticz) sensors with your friends. For instance you can share your Rain Meter, but also lights/switches that other people can control.

For this, you need to enter an Administrator username/password in the application settings. Then you can add users and assign sensors/switches to this user.

Consult the documentation of the router on how to setup a Firewall/NAT/Forward rule.

Domoticz Remote Server

To receive sensors from other people, you have to add a 'Domoticz – Remote Server' hardware device, specify the IP Address/Port of the remote Domoticz server, and username and password.



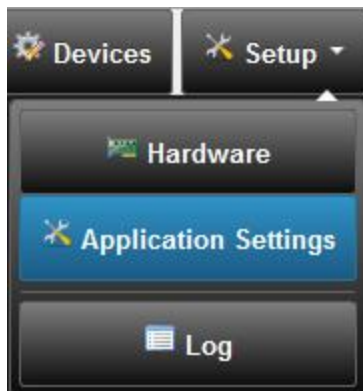
A screenshot of a web form for adding a Remote Server device. The form has a dark background with light-colored text and input fields. The fields are: 'Enabled' with a checked checkbox, 'Name' with the value 'RemoteDomoticz', 'Type' with a dropdown menu showing 'Domoticz - Remote Server', 'Remote Address' with the value '188.199.200.201', 'Port' with the value '6641', 'Username' with the value 'username', and 'Password' with a masked input field showing 10 dots.

By pressing the ADD button, the hardware is added to the system and will automatically start.

You can see a debug console (windows) by pressing the right mouse button on the Domoticz icon in the system tray.

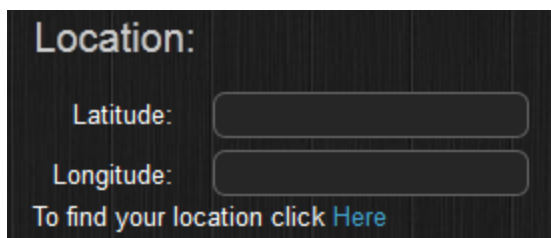
Application Settings

There are various application settings. For control of Light/Switches based on Sun Set /Sunrise timings, it is important to setup your location.

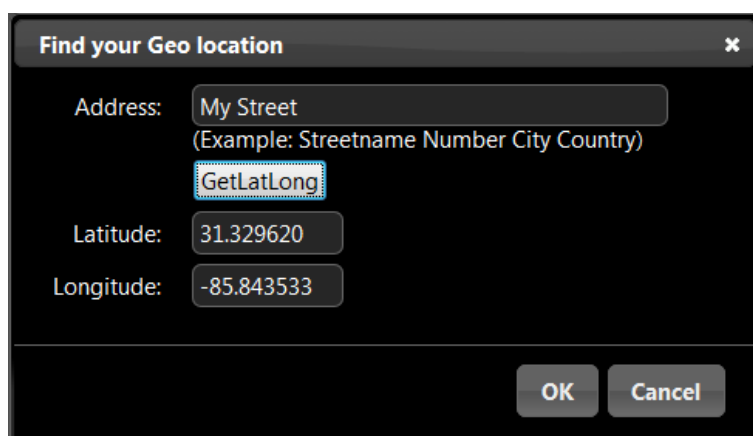


Location Setup

To setup your location click on the 'Setup' tab, and enter the Latitude/Longitude parameters.

A screenshot of the 'Location' setup window. It has a title 'Location:' and two input fields labeled 'Latitude:' and 'Longitude:'. Below the fields, there is a text prompt: 'To find your location click [Here](#)'.

If you do not know these parameters, press the 'Here' link and enter your address:

A screenshot of a dialog box titled 'Find your Geo location'. It contains an 'Address:' label followed by a text input field with 'My Street' and a subtext '(Example: Streetname Number City Country)'. Below this is a button labeled 'GetLatLong'. Underneath are two more input fields: 'Latitude:' with the value '31.329620' and 'Longitude:' with the value '-85.843533'. At the bottom right are 'OK' and 'Cancel' buttons.

When pressing OK the parameters are accepted by the application.

Press the SAVE button to store the settings.

Notification Setup

Notifications can be send for example when a switch is pushed, electricity usage is too high, temperature to high and for many more options.

The following systems are supported: Prowl and NMA

Prowl (iPhone/iPad notification system):	NMA (Android notification system):
API Key: <input type="text" value="12345678901234567890abcdef1234567890abc"/> <input type="button" value="Test"/>	API Key: <input type="text" value="12345678901234567890abcdef1234567890abc"/> <input type="button" value="Test"/>
To get a free account/API key click Here	To get a free account/API key click Here

Light/Switch History

With this parameter you can specify the amount of Log days that a Light/Switch will hold.

Light/Switch History:

Days:

Short Log History

Every meter/sensor data will be logged each 5 minutes. By default 1 day of 5 minute logs will be kept.

It is possible to enlarge this window to 7 days, but keep in mind this will cost more hard disk space, and when working remotely there is more data to transfer resulting in a slower response.

Short Log History:

Days:

Dashboard Mode

The default page (dashboard) supports several layout modes:

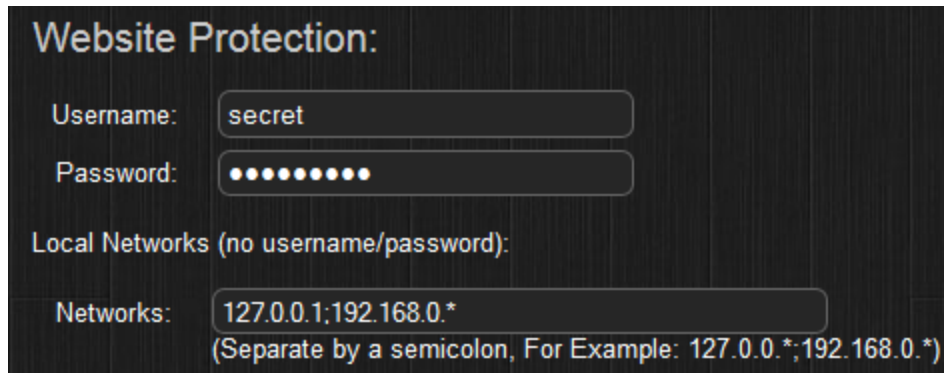
- Normal
- Compact
- Mobile*

*On mobile devices (iPhone/iPad/Android/...) the layout is always 'Mobile'

Website Protection

By default no username/password is needed to access Domoticz via the web browser.

If you wish to protect Domoticz (for instance if you have shared the port to the outside world), you can specify the Username/Password that needs to be entered to access the system.

The screenshot shows a configuration window titled "Website Protection:". It contains three input fields. The first is labeled "Username:" and has the text "secret" entered. The second is labeled "Password:" and contains ten dots. The third is labeled "Local Networks (no username/password):" and has a sub-label "Networks:" with the text "127.0.0.1;192.168.0.*" entered. Below this input, there is a note in parentheses: "(Separate by a semicolon, For Example: 127.0.0.*;192.168.0.*)".

It is also possible to specify the 'Local Networks' that does not have to enter a Username/Password.

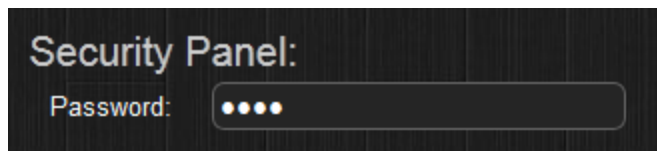
Resetting the Website Username/Password

To reset the website username/password incase this is lost... there are two options.

- Specify `--nowwwpwd` as command line argument
- Place a file labeled 'resetpwd' inside the root Domoticz installation folder.
Each minute the existence of this file is checked, and if found the Username/Password is reset and the file is removed.

Security Panel

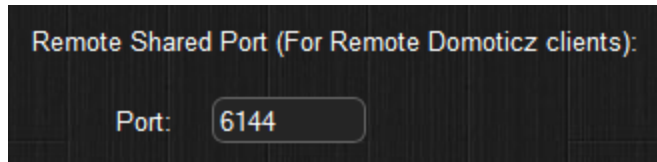
The system has a security panel to specify if you are home/home-armed/away

The screenshot shows a configuration window titled "Security Panel:". It contains one input field labeled "Password:" which has four dots entered.

You can use this as an alarm system

Remote Sharing

If you wish to share your sensors to other users, you can specify the remote port that Domoticz will listen on for remote connections. Consult your router for setting up a firewall/nat rule to this port.

The screenshot shows a configuration window titled "Remote Shared Port (For Remote Domoticz clients):". It contains one input field labeled "Port:" which has the number "6144" entered.

Software Updates

The Domoticz system can be updated (Raspberry Pi) via the web interface.

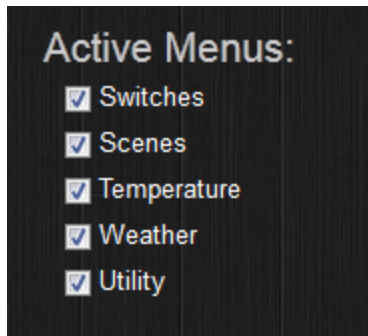
There are two options:

- Stable versions (recommended)
- Beta versions (developer versions)

A screenshot of the 'Software Updates' section in the Domoticz web interface. It features a dark background with white text. At the top, it says 'Software Updates:'. Below this, there is a checked checkbox labeled 'Check for Updates (Not working on windows systems)'. Underneath, it says 'Release Channel:' followed by a dropdown menu currently set to 'Stable'.

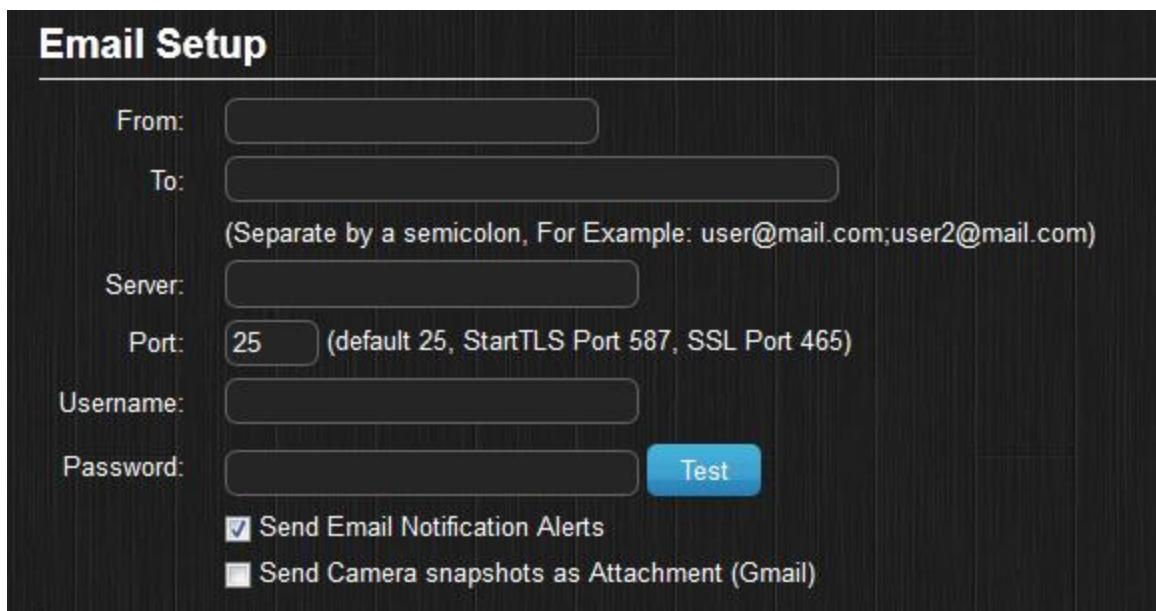
Enabling/Disabling Tabs/Menus

With this setting you can hide certain tabs you do not wish to see. For example if you do not own utility devices you can hide this tab.

A screenshot of the 'Active Menus' section in the Domoticz web interface. It has a dark background with white text. The title 'Active Menus:' is at the top. Below it, there is a list of menu items, each with a checked checkbox: 'Switches', 'Scenes', 'Temperature', 'Weather', and 'Utility'.

Email Setup

If you enter your email details here, you can receive notifications/web cam screenshots and more.

A screenshot of the 'Email Setup' form in the Domoticz web interface. The title 'Email Setup' is at the top. The form has a dark background with white text and input fields. It includes fields for 'From:', 'To:', 'Server:', 'Port:', 'Username:', and 'Password:'. The 'To:' field has a hint text: '(Separate by a semicolon, For Example: user@mail.com;user2@mail.com)'. The 'Port:' field has a hint text: '(default 25, StartTLS Port 587, SSL Port 465)'. There is a blue 'Test' button next to the 'Password:' field. At the bottom, there are two checkboxes: 'Send Email Notification Alerts' (checked) and 'Send Camera snapshots as Attachment (Gmail)' (unchecked).

Meter/Counter Setup

Wind Meter

Wind meter notation (m/s, km/h, mph or knots)



OWL 113 display mode

By default the OWL 113 is displaying the Current in Amperes. It is possible to display this in Energy (Watt). For this you need to supply the normal housing voltage.



RFX/Meter Dividers

Some utility devices might use another basic scale for their meter (turns/minute for example).



<< These are the default settings.

It is also possible to enter the costs for Energy, Gas and Water here. These values will be used when displaying reports.

Other Settings

Other Settings

Random Timer:

Spread: (Minutes +/-)

Doorbell Command:

Command:

Raspberry Pi Camera Parameters:

Params:
(default: -w 800 -h 600 -t 0)

Devices

Once the application is running it will collect all devices found/received and begin logging the messages.

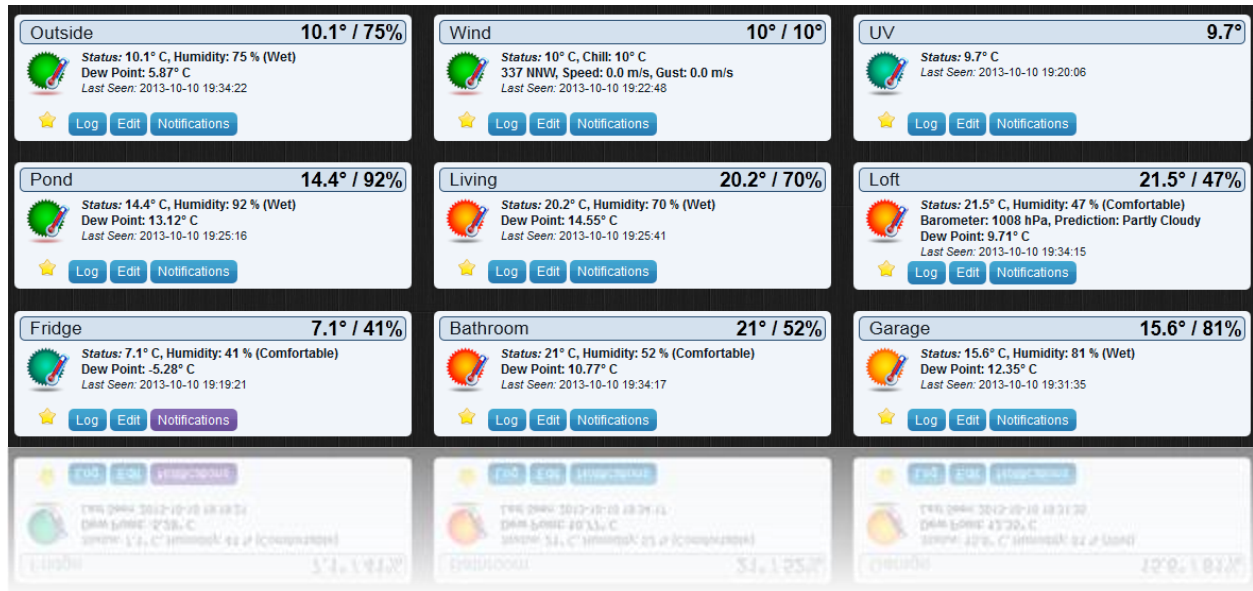
Home	32780	0	Rain Meter	Rain	TFA	0, 0.672.7	2012-12-02	✗
Home	0674EE6	10	LightSwitch Hobby Room	Lighting 2	AC	On, Level: 100 %	2012-12-02	✗
Home	36624	0	UV Meter	UV	TFA	0.1 UVI, 7.0° C	2012-12-02	✗
Emma	69	2	not used	Lighting 1	ARC	On	2012-12-02	✓
Home	073E33A	10	Dusk Detector	Lighting 2	AC	Off	2012-12-02	✗
Home	04DDB3E	1	Outside Light	Lighting 2	AC	Off	2012-12-02	✗
Home	79	4	not used	Lighting 1	ARC	Off	2012-12-02	✓
Home	79	2	not used	Lighting 1	ARC	Off	2012-12-02	✓
Home	79	3	not used	Lighting 1	ARC	Off	2012-12-02	✓
Home	79	1	Sunset Switch	Lighting 1	ARC	Off	2012-12-02	✗
Home	049D532	1	Doorbell Side	Lighting 2	AC	Group On, Level: 100 %	2012-12-01 11:1	✗
Home	07FDFF	1	not used	Lighting 5	BBSB new	On	2012-12-01 11:1	✓
Home	07FFFF	1	not used	Lighting 5	BBSB new	On	2012-12-01 11:1	✓
Home	011111	1	not used	Lighting 2	BBSB new	On	2015-15-01 11:1	✓
Home	011111	1	not used	Lighting 2	BBSB new	On	2015-15-01 11:1	✗
Home	0130235	1	Doorbell Side	Lighting 5	YSC	Group On, Level: 100 %	2015-15-05 00	✗
Home	13	1	Sunset Switch	Lighting 1	YSC	On	2015-15-05 00	✓
Home	13	2	not used	Lighting 1	YSC	On	2015-15-05 00	✓
Home	13	3	not used	Lighting 1	YSC	On	2015-15-05 00	✓

Devices can be Added/Removed from this tab. Light devices can also be added to the system from the 'Lights/Switches' tab.

To Add temperature/weather sensors press the add button, and enter a name. You will now find them in their respective tabs.

Temperature

The temperature tab includes all sensors that have a temperature sensor.



A temperature sensor can also include a Humidity sensor.

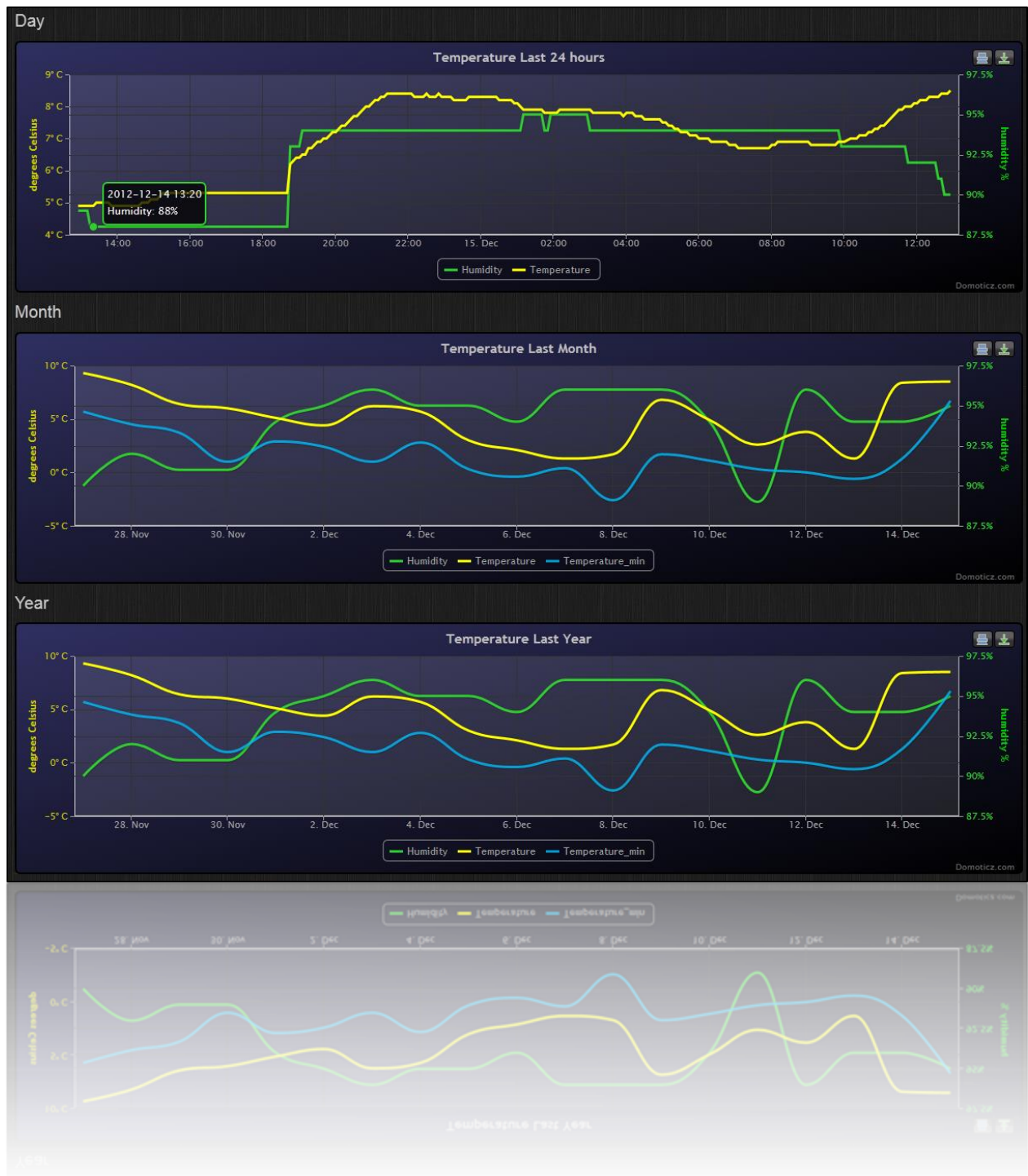
Each item has the following options:

- Favorite push icon (to display this device on the Dashboard tab)
- Log (Displays the log)
- Edit (Edit device parameters)
- Notifications (see Notification chapter)

By Dragging/Dropping the sensor items, you can change the position of the devices in the window.

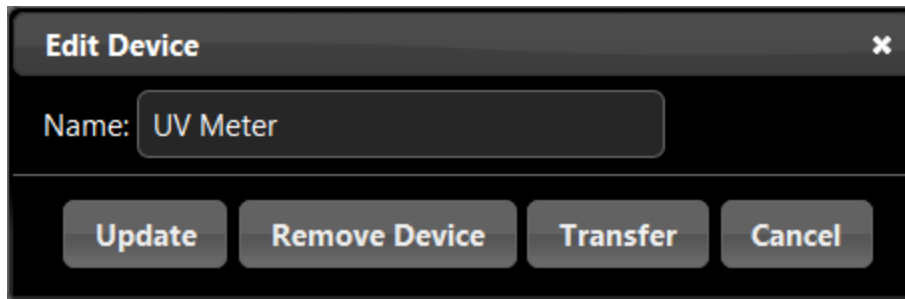
Log

By pressing the log button you can see the log of the sensor. It is possible to zoom in/out.



By pressing the BACK button you return to the overview.

Edit



In this dialog you can rename the device, remove, or transfer it.

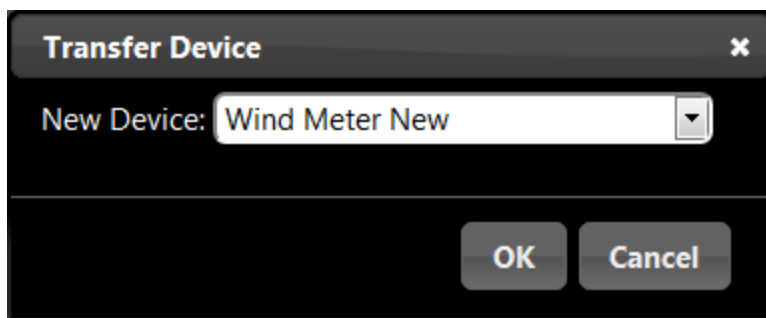
Transfer

Some devices change their unique ID when a new battery is installed.

To transfer the old Log to the new device act as follow:

First, add the new device to the system, and call it for example 'Wind Meter New'.

Next press the Edit button on the Old device, select transfer and select the new Device. (In this case the devices called 'Wind Meter New'.



Next press OK, and the old device logs are transferred to the new Device.

Now you can rename the new device back to 'Wind Meter', and position it back.

Notifications

The screenshot shows a configuration window for a notification named 'Temp. Buiten'. At the top, it says 'Name: Temp. Buiten'. Below this is a 'Show' dropdown set to '25' with the text 'entries' to its right. A table with two columns, 'Type' and 'When', lists two entries: 'Temperature' with 'Greater then 20 ° C' and 'Temperature' with 'Below -2 ° C'. Below the table, it says 'Showing 1 to 2 of 2 entries'. There are 'Update' and 'Delete' buttons. At the bottom, there are input fields for 'Type' (set to 'Temperature'), 'When' (set to 'Greater'), and 'Value' (empty) followed by '° C'. A faint, mirrored version of these fields is visible below the main form.

Type	When
Temperature	Greater then 20 ° C
Temperature	Below -2 ° C

Showing 1 to 2 of 2 entries

Update Delete

Type: Temperature

When: Greater

Value: ° C

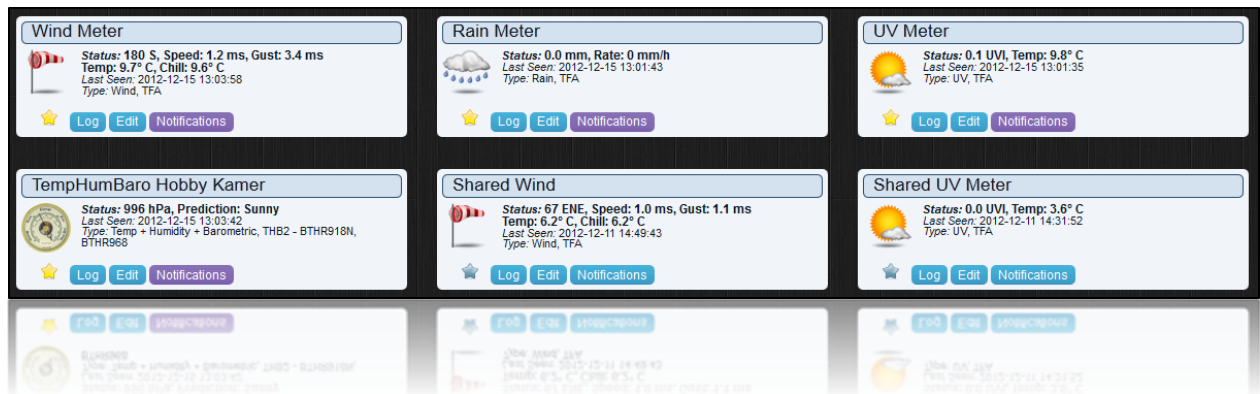
Each device has different notifications (depending on the hardware options).

For example, in the above screenshot, you want to be notified if the temperature drops below -2 degrees.

See the Notification chapter for more details.

Weather

The weather tab includes all sensors that are related to weather...



A weather sensor can be:

- Rain Meter
- Wind Meter
- UV Meter
- Barometer

Each item has the following options:

- Favorite push icon (to display this device on the Dashboard tab)
- Log (Displays the log)
- Edit (Edit device parameters)
- Notifications (see Notification chapter)

By Dragging/Dropping the sensor items, you can change the position of the devices in the window.

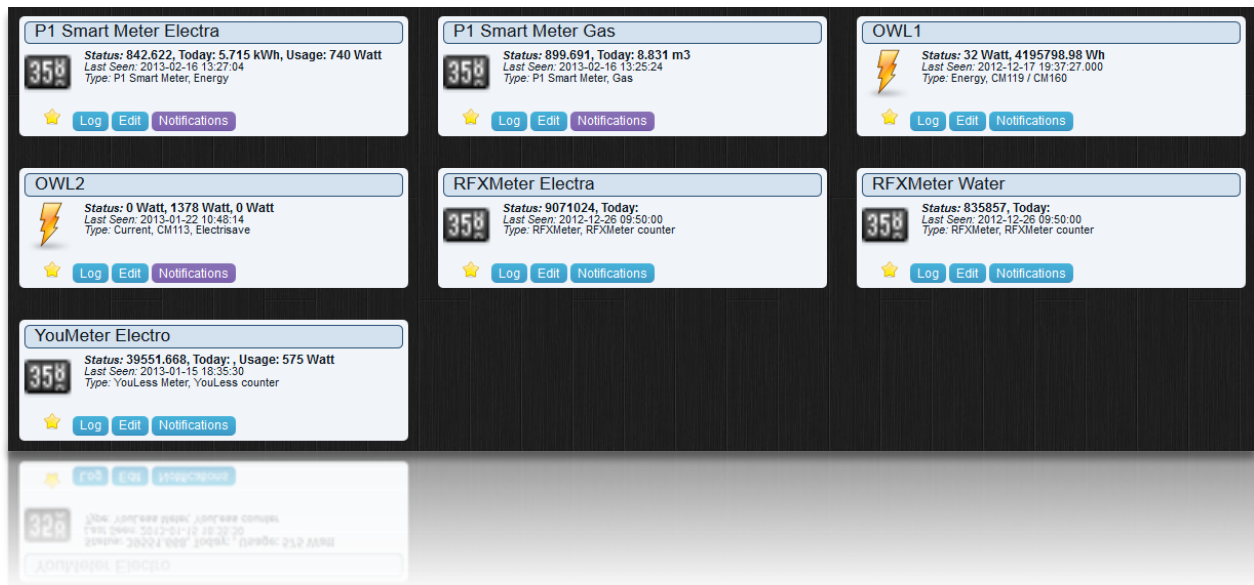
Log

Rain



Utility

The utility tab includes Meter Sensors (Energy / Gas / P1 / YouLess / Voltage / AD / Air Quality / ...)



Each item has the following options:

- Favorite push icon (to display this device on the Dashboard tab)
- Log (Displays the log)
- Edit (Edit device parameters)
- Notifications (see Notification chapter)

By Dragging/Dropping the sensor items, you can change the position of the devices in the window.

Labels

When using the dashboard in compact or mobile mode, there is limited room for the current status.

Therefore the following labels apply:

R = Return

T = Today

U = Usage

A = Actual

Lights/Switches

The lights/switches tab includes devices like:

- Light Switches
- Door sensors
- Blinds
- Doorbells
- Security
- Sirens
- ...



This chapter can be the most difficult part to setup. (Depending on your needs)

Each item has the following options:

- Status icon that can be push to toggle on/off status (depending on the hardware)
- Favorite push icon (to display this device on the Dashboard tab)
- Log (Displays the log)
- Edit (Edit device parameters, and Sub/Slave Devices)
- Notifications (see Notification chapter)

By Dragging/Dropping the sensor items, you can change the position of the devices in the window.

Lights and Switches can be added by:

- Auto Learning
- Manual Setup
- From the devices tab

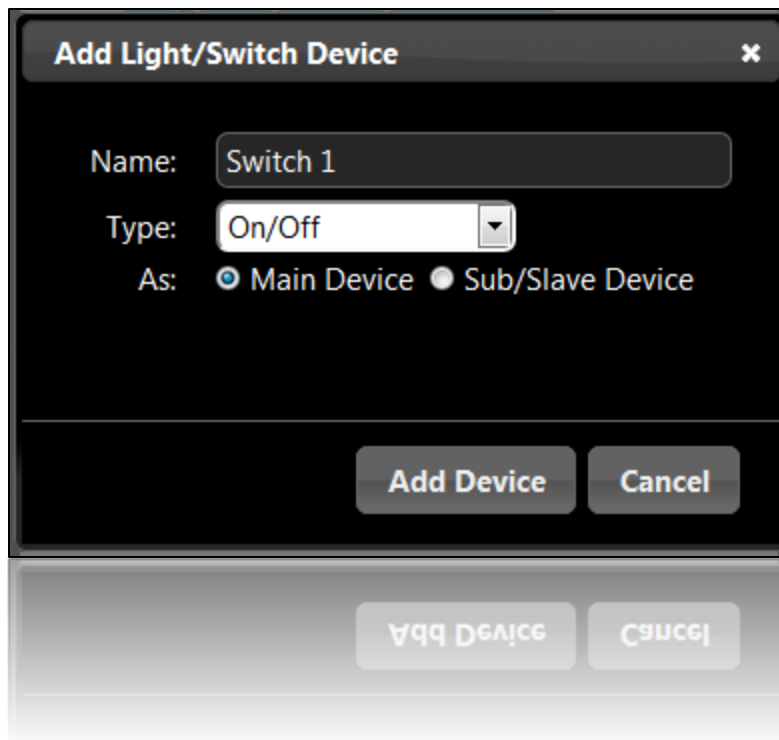
Adding a Light/Switch by Auto Learning



By pressing the 'Learn Light/Switch' button you have 5 seconds to press the remote/switch/sensor.

If this time is too short you should position yourself nearer the remote/switch/sensor by using a portable computer such as Tablet or Smartphone

Once you press the button the following screen is presented:



For the switch type there are various options to choose from:

- On/Off (a normal switch/remote button)
- Doorbell
- Contact (like a door sensor)
- Blinds
- X10 Siren device
- Motion Sensor
- ...

Normally you setup a new light as a 'Main' device, but it can also be a Sub/Slave device.

More about Sub/Slave devices later.

Adding a Light/Switch Manually

If you know the switch brand/type/address it is also possible to enter the parameters by hand.

It is also possible to create a new 'virtual' device that can control a light without having to buy a remote/switch.

Add Manual Light/Switch Device ✕

Hardware: Home

Name:

Type: On / Off

Type: ARC

House Code: A

Unit Code: 9

Test

As: ☒ Main Device ☐ Sub/Slave Device

Add Device Cancel

Sub/Slave Devices

(One of the most difficult chapters)

What is a Sub/Slave Device

Most Lights can be controlled from up to 6 remotes.

See the following two examples:

Example 1 (Outdoor Light)

Imagine you have an outdoor light that is controlled by a switch (***a**) from inside the house.

It is possible to buy small remote controllers (***b**) for on a keychain.

When you also want to control the outside light from this small remote, the small remote (***b**) is a Sub/Slave device from the main switch (***a**).

Example 2 (Floor Lights)

Imagine you have a house with two floors, each floor has its own switch (***a, first floor**) and (***b, second floor**).

Downstairs next to your exit door you have a switch (***c**) to turn ON / OFF ALL the lights.

In this case the switch (***c**) is a Sub/Slave device for switch (***a, first floor**) and (***b, second floor**)

Consult your hardware manual on how to setup two/multiple switches for one light.

Example 1 (Outdoor Light) Setup

First you add the normal in-house switch (***a**) like adding a normal Main light/switch as shown above:

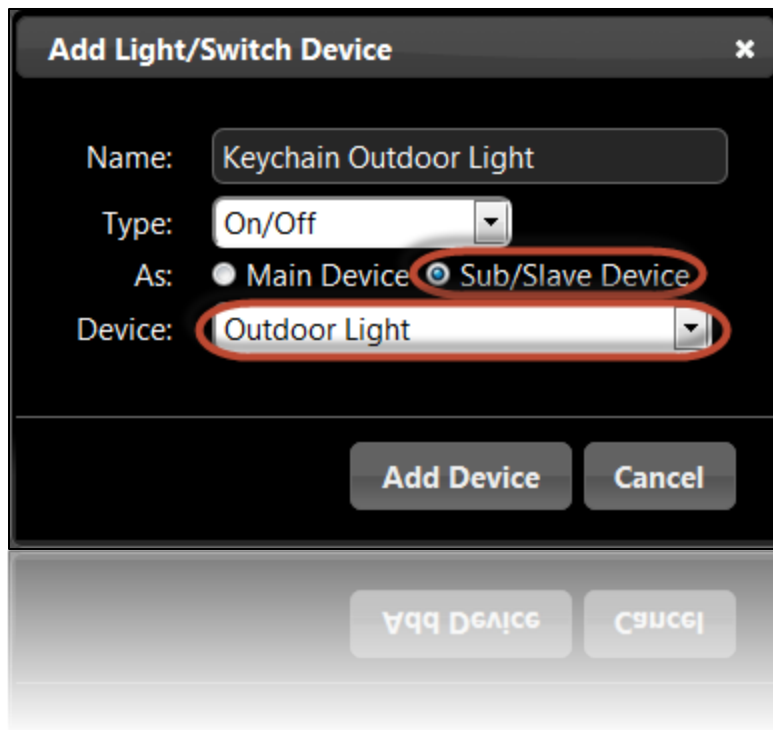
Add Light/Switch Device ✕

Name:

Type:

As: ☒ Main Device ☐ Sub/Slave Device

Next we are going to add the keychain remote (***b**), but instead of choosing to set it up as Main device, we are selecting 'Sub/Slave' device:



Add Light/Switch Device ✕

Name: Keychain Outdoor Light

Type: On/Off ▼

As: ☐ Main Device ☒ Sub/Slave Device

Device: Outdoor Light ▼

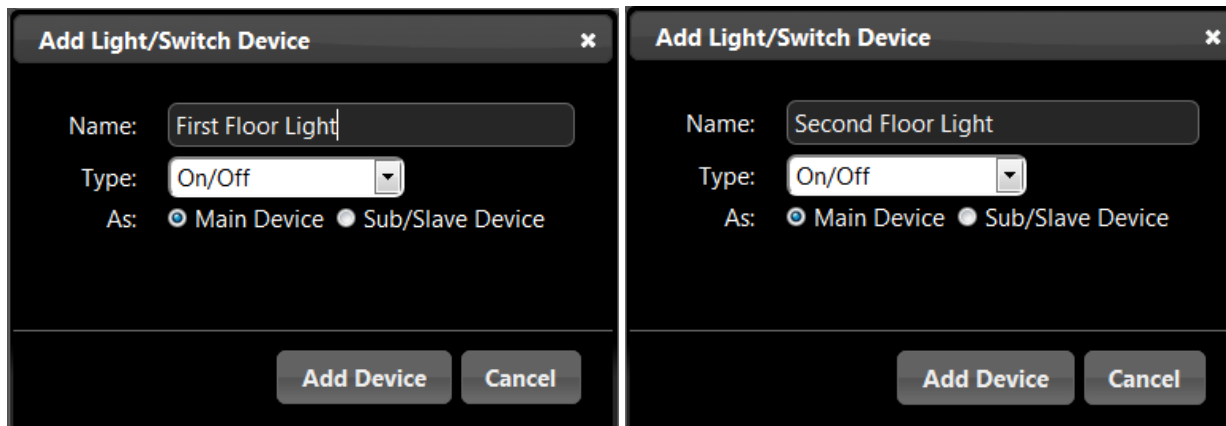
Add Device Cancel

Add Device Cancel

When selecting 'Sub/Slave' Device, a new option will become visible, and here we select the 'Main' device, in this case the 'Outdoor Light'.

Example 2 (Floor Lights) Setup

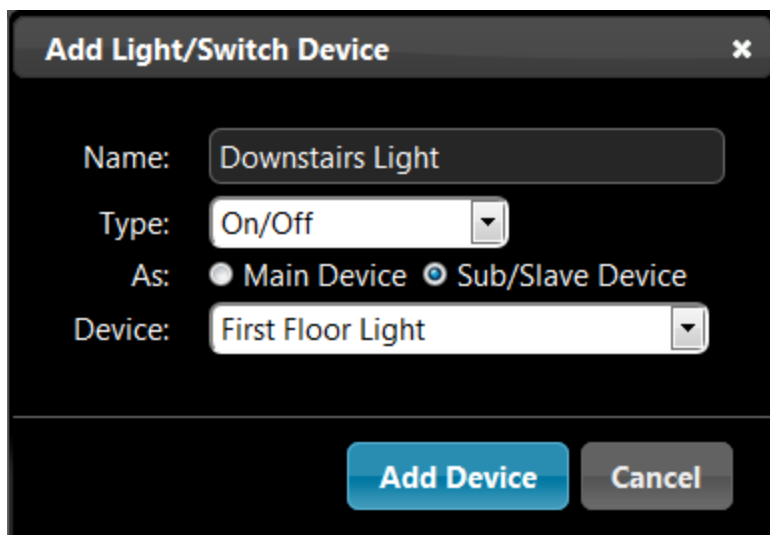
First you add the two floor lights (*a) and (*b) like adding a normal Main light/switch as shown above:



Two side-by-side "Add Light/Switch Device" dialog boxes. The left dialog has "Name: First Floor Light", "Type: On/Off", and "As: Main Device" selected. The right dialog has "Name: Second Floor Light", "Type: On/Off", and "As: Main Device" selected. Both have "Add Device" and "Cancel" buttons at the bottom.

Next we are going to add the downstairs switch (*c) that can turn ON / OFF both floor lights.

Remember to select Sub/Slave Device:

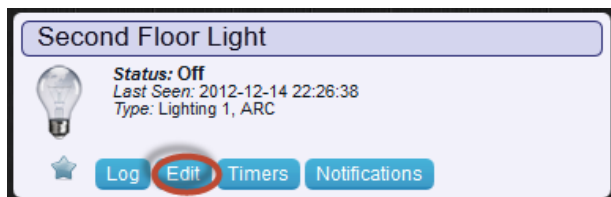


An "Add Light/Switch Device" dialog box. The "Name" field is "Downstairs Light", "Type" is "On/Off", "As" is "Sub/Slave Device" (selected), and "Device" is "First Floor Light". The "Add Device" button is highlighted in blue.

Select the First Floor Light (*a) as the Main device.

Now that we have added the 'Downstairs Light' we can also make this a Sub/Slave device for another Main Device.

To add the 'Downstairs Light' as a Sub/Slave device for the 'Second Floor Light' (*b) press the 'Edit' button:



A device card for "Second Floor Light". It shows "Status: Off", "Last Seen: 2012-12-14 22:26:38", and "Type: Lighting 1, ARC". At the bottom are buttons for "Log", "Edit" (circled in red), "Timers", and "Notifications".

Back

Name: Second Floor Light

Type: On/Off

Save

Sub/Slave Devices:

Search:

Name

No data available in table

Showing 0 to 0 of 0 entries

Delete

Clear

Sub/Slave Device: Downstairs Light Add

Sub/Slave Device: Downstairs Light Add

Delete

Clear

From the Sub/Slave devices select the Downstairs Light (*c) and press ADD.

Now this Sub/Slave device is also assigned to this device.

Back

Name: Second Floor Light

Type: On/Off

Save

Sub/Slave Devices:

Search:

Name

Downstairs Light

Showing 1 to 1 of 1 entries

Delete

Clear

Sub/Slave Device: Downstairs Light Add

Sub/Slave Device: Downstairs Light Add

Delete

Clear

***Note:** When adding a Sub/Slave device, this will not be visible in the 'Lights' tab by default. You see this device in the 'Edit' screen from the device you added it too.

If you also want to control or see the Sub/Slave device, you will have to add this device again, and set it up as Main device.

EnOcean

Please note that the EnOcean hardware can only transmit with its own deviceID. This means it will receive the real switches, but it cannot control these directly.

For EnOcean it is therefore needed that you manually create switches (up to 128), and learn both the real switch And a Domoticz manual switch to the actual dimmer device. Set the real switch as 'Sub/Slave' of the Domoticz switch.

Notifications

What are Notifications?

Notifications can be used when you want to know if a switch is pressed (for example a doorbell), or when a temperature is below/above a certain degree, or when your power usage is above xxx Watt, etc.

Each device has different parameters for notifications, a switch might have an On/Off state, a temperature device might have a temperature/humidity and a wind meter might have wind force/speed/chill...

Setting up the Notification System

Notifications are sent via the Prowl (iPhone) or NMA (Android) system.

You need to create a (free) account for one/all of the above systems. Then the API key has to be specified in the Settings tab:

The screenshot shows a dark-themed interface for setting up notifications. It features two main sections: 'Prowl (iPhone/iPad notification system):' and 'NMA (Android notification system):'. Each section has a text input field for an 'API Key' containing the value '626daEbc13a201510c8e46927f94b631e45c42af', a blue 'Test' button, and a link that says 'To get a free account/API key click [Here](#)'. A third, partially visible section at the bottom shows a similar setup with a different API key and a 'Test' button.

If you use one of the above systems, you need to download the client on your mobile/tablet device.

The price of the client is around 3 dollars. (On most devices, buy one time, use on all your devices)

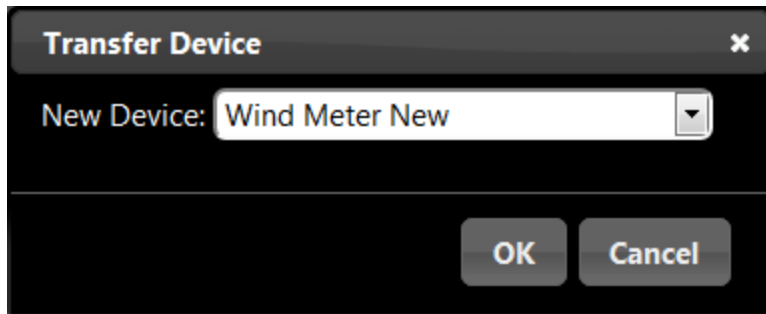
Replacing Batteries

Some devices change their unique ID when a new battery is installed.

To transfer the old Log to the new device act as follow:

First, add the new device to the system, and call it for example 'Wind Meter New'.

Next press the Edit button on the Old device, select transfer and select the new Device. (In this case the devices called 'Wind Meter New'.



Next press OK, and the old device logs and settings are transferred to the new Device.

Now you can rename the new device back to 'Wind Meter', and position it back.

Special Hardware Setup

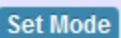
S0 Pulse Meters

At this moment Domoticz supports meters with two or five inputs that can be bought from:

<http://www.smartmeterdashboard.nl/>

Once added to the hardware setup you can specify the serial baud rate for the device.

- Two inputs = 9600
- Five inputs = 115200

S0 Meter USB 

Most other hardware setup related questions can be found our Wiki page

<http://www.domoticz.com/wiki/>

Browser Cache

The web frontend is set to be cached. This will speed up the application launch time, and is perfect if you create a shortcut on the home screen of an iPhone/iPad/....

If for some reason, the page does not load correctly in Firefox / Chrome, clear this cache.

Chrome

From inside the Chrome browser browse to the following URL:

chrome://appcache-internals/

You will now see all web applications that are cached.

Find the Domoticz cache and press 'Remove'.

Firefox

From the options page, go to the 'Advanced' page.

At the bottom you will see all web applications that are cached.

Select the Domoticz application, and press 'Remove'.

Internet Explorer 10+

From the options page, go to 'General', Under 'Browser History' select settings, then select the 'Caches and databases' tab.

Select the Domoticz application, and press 'Delete'.

Receiver improvements

Another antenna is officially not allowed because the RFXtrx is certified with the supplied antenna.

But to increase the receiving range you can connect (for example) a 190073 Conrad 433MHz ground plane, however this will also increase the radiated transmit power which is illegal! (If you are not licensed to it.)

The following adapter can be used for SMA- to BNC:

http://www.ebay.com/itm/BNC-female-SMA-male-plug-coax-connector-adapter-/180454327185?pt=LH_DefaultDomain_0&hash=item2a03ea8391

The location of the sensor and the RFXCOM is also important if the RF signal has to pass through walls. See chapter 2.4 in the RFXtrx User Guide

<http://www.rfxcom.com/documents/RFXtrx%20User%20Guide.pdf>

It is expected that RF interference is happening if sensor signals disappear for several hours. RF interference will also occur if sensors of the same type are configured to the same channel.

If sensors disappear for a longer period the source of the problem can be another transmitter that is transmitting continuously or with short intervals.

If X10 MS13 sensors are in use check the battery in this sensor because when the battery becomes almost empty the MS13 starts transmitting a weak continuous RF signal but just enough to disturb the sensitive RFXCOM receiving.

IPhone / iPad

If you browse on your iPhone/iPad to the Domoticz site (for example <http://192.168.0.3:8080>), and add a shortcut to the home screen, the application will launch 90% faster, and works as a stand-alone application. It is best to add a shortcut for 'internal' and 'external' use. (Internal = from inside your house, External = from outside your house). For external usage, you need to add a firewall rule in your router.

Sharing USB Devices over LAN

If you would like to share USB devices via TCP/IP you can use the applications 'Ser2Net' or Socat.

Participation

We always welcome talented C++/HTML5/JQuery developers.

If you think you want to help, please contact us at Info@Domoticz.com

Thanks

Thanks go out to all people that have helped during development and testing.