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What is tSdomotica BTicino Smarther 1

Sdomotica is a gateway using official Legrand API to integrate BTicino Smarther 1 X8000 and X800W with Home Assistant.

This addon is for the Smarther using Thermostat app NOT Home +

The official Legrand API permit only 500 daily calls

Basically the addon translates home automation commands into MQTT messages and is a builder of Home Assistant package specifically for BTicino/Legrand items.

[Please follow all the steps to install and configure add-on, don't jump any step.](#)

Hassio prerequisites and Home Assistant configuration

Other addons to install before Sdomotica Addon

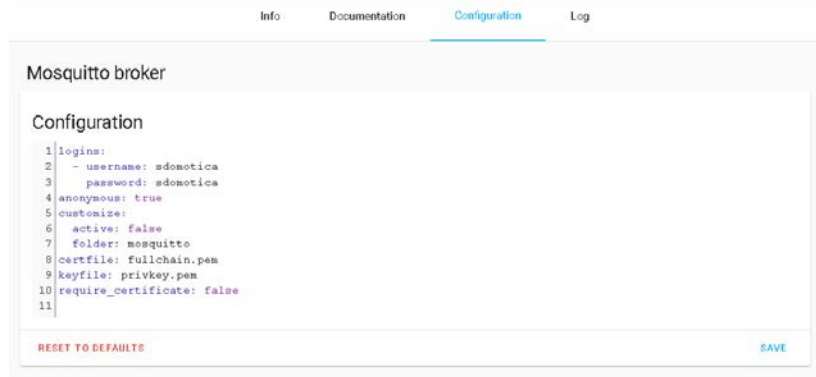
Sdomotica need for communicate with Hassio, a broker MQTT and for file transfer Samba for edit configuration file and upload Sdomotica package

Please install and configure these (Mosquito broker and Samba Share, but Samba is optional)

The screenshot shows the Home Assistant interface with the 'Add-on store' tab selected. The left sidebar contains navigation options: Home Assistant, Panoramica, Mappa, Registro, Storico, and Browser multimediale. The main content area is titled 'Official add-ons' and features a search bar and a grid of add-on cards. Two cards are highlighted with red boxes: 'Mosquito broker' (An Open Source MQTT broker) and 'Samba share' (Expose Home Assistant folders with SMB/CIFS). Other visible add-ons include Almond, CEC Scanner, Check Home Assistant configuration, deCONZ, Duck DNS, File editor, Hey Ada!, HomeMatic CCU, Home Assistant SSL proxy, Let's Encrypt, MariaDB, OpenZWave, RPC Shutdown, and TellStick.

These are the configurations to do into the addons

Mosquito



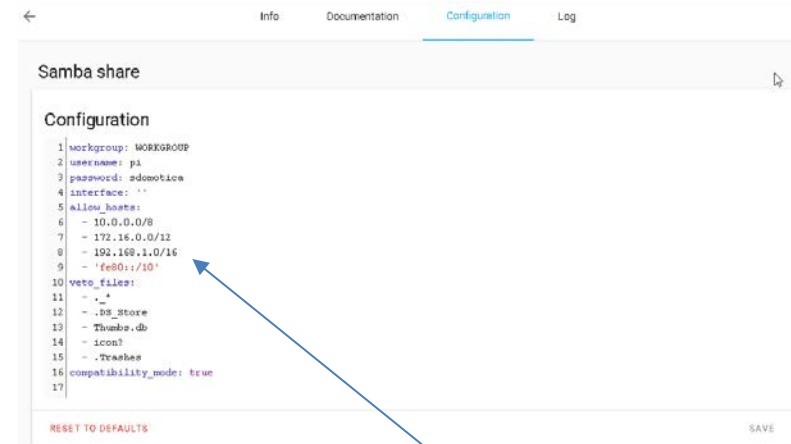
The screenshot shows the Mosquito broker configuration page. At the top, there are tabs for 'Info', 'Documentation', 'Configuration', and 'Log'. The 'Configuration' tab is active. Below the title 'Mosquito broker', there is a 'Configuration' section with a text area containing the following settings:

```
1 logins:
2   - username: sdomotica
3     password: sdomotica
4 anonymous: true
5 customize:
6   active: false
7   folder: mosquito
8 certfile: fullchain.pem
9 keyfile: privkey.pem
10 require_certificate: false
11
```

At the bottom of the configuration area, there are two buttons: 'RESET TO DEFAULTS' and 'SAVE'.

```
logins:
  - username: sdomotica
    password: sdomotica
anonymous: true
customize:
  active: false
  folder: mosquito
certfile: fullchain.pem
keyfile: privkey.pem
require_certificate: false
```

Samba



The screenshot shows the Samba share configuration page. At the top, there are tabs for 'Info', 'Documentation', 'Configuration', and 'Log'. The 'Configuration' tab is active. Below the title 'Samba share', there is a 'Configuration' section with a text area containing the following settings:

```
1 workgroup: WORKGROUP
2 username: pa
3 password: sdomotica
4 interface: ''
5 allow_hosts:
6   - 10.0.0.0/8
7   - 172.16.0.0/12
8   - 192.168.1.0/16
9   - '!fe80::/10'
10 veto_files:
11   - '*'
12   - .DS_Store
13   - Thumbs.db
14   - icon?
15   - .Trash*
16 compatibility_mode: true
17
```

A blue arrow points from the text below to the '192.168.1.0/16' line in the configuration. At the bottom of the configuration area, there are two buttons: 'RESET TO DEFAULTS' and 'SAVE'.

Please put your part of IP address into.
For Example, if your Raspberry has this IP
192.168.1.83 put in configuration 192.168.1.0/16

Please check all of other parameters as the above example

Home Assistant Configuration

Open configuration.yaml and edit as below. Digit on Explorer [\\192.168.1.157](http://192.168.1.157) user: pi password: sdomotica

The image shows a composite screenshot. On the left is the Home Assistant web interface with sections for 'KeyPad Status', 'Zone Status', 'Centrale Info', and 'Controllo Partizioni'. On the right is a Windows Explorer window showing the file structure of a remote server at 192.168.1.157. The 'config' folder is selected, showing a list of files including 'configuration.yaml'. Red arrows indicate the path from the IP address in the browser address bar to the 'config' folder, and then to the 'configuration.yaml' file.

Insert in **configuration.yaml** the packages config

```
homeassistant:  
  packages: !include_dir_named packages  
  
# Configure a default setup of Home Assistant (frontend, api, etc)  
default_config:
```

Create a folder if not exist in the config folder and name it **packages**

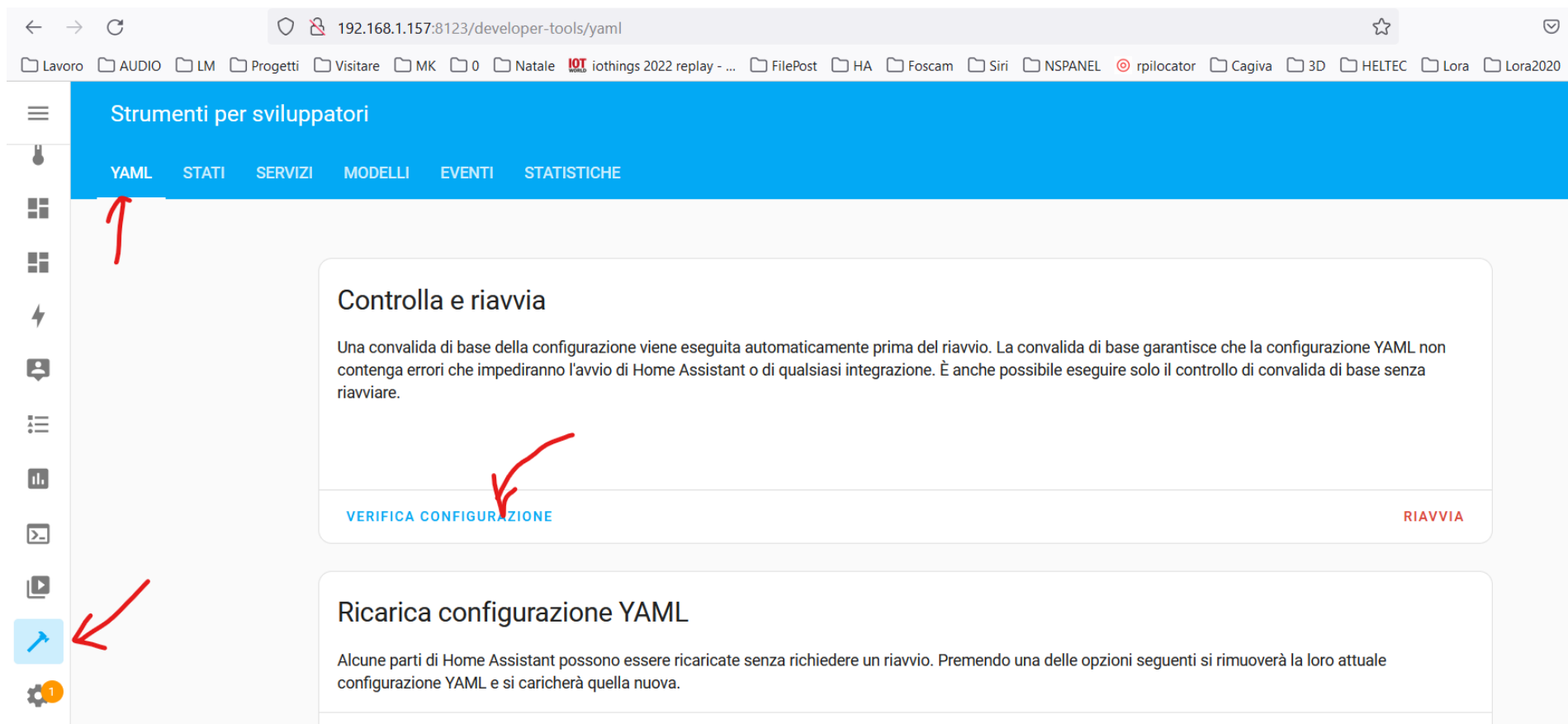
En

The image displays two parts of a user interface. On the left, a file explorer window shows the contents of a 'config' folder. A red arrow points to a folder named 'packages'. The file explorer table is as follows:

Nome	Ultima modifica	Tipo	Dimensione
.cloud	23/11/2020 10:32	Cartella di file	
.storage	02/12/2020 10:26	Cartella di file	
deps	23/11/2020 10:31	Cartella di file	
packages	29/11/2020 11:08	Cartella di file	
tts	23/11/2020 10:32	Cartella di file	
.HA_VERSION	27/11/2020 10:23	File HA_VERSION	1 KB
automations.yaml	23/11/2020 10:31	File YAML	1 KB
configuration.yaml	27/11/2020 08:55	File YAML	1 KB
groups.yaml	23/11/2020 10:31	File YAML	0 KB
home-assistant.log	02/12/2020 09:01	File LOG	33 KB
home-assistant_v2.db	02/12/2020 10:42	Database	
scenes.yaml	23/11/2020 10:31	File YAML	
scripts.yaml	23/11/2020 10:31	File YAML	
secrets.yaml	23/11/2020 10:31	File YAML	

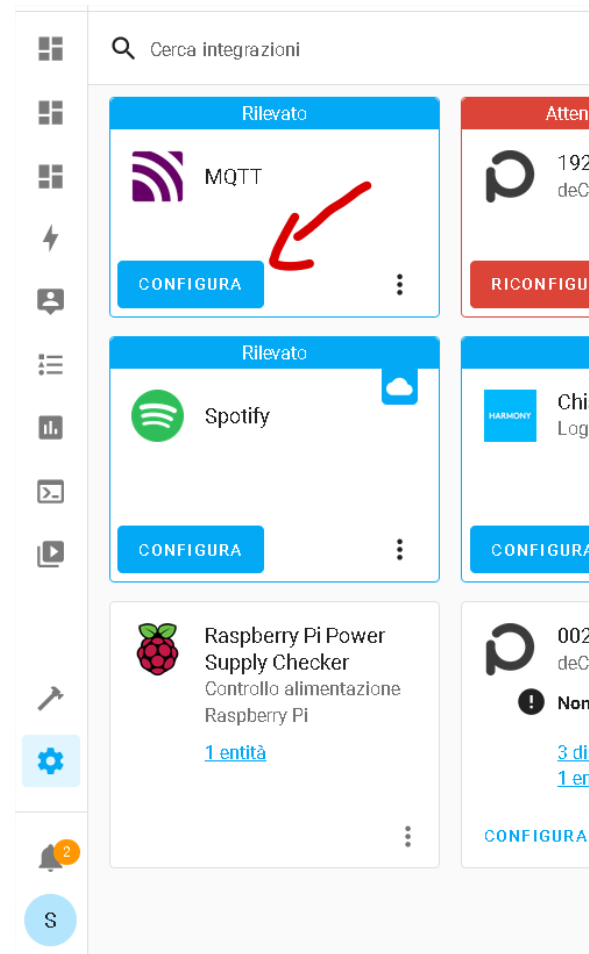
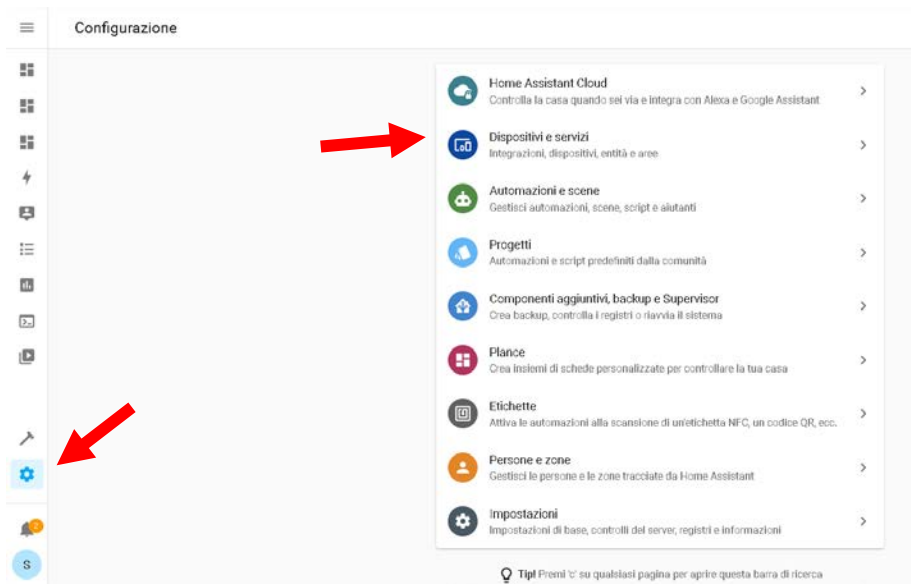
On the right, a mobile application interface is shown. The top navigation bar is blue and contains the text 'Home Assistant' and 'Profilo'. Below this is a sidebar menu with options: 'Panoramica', 'Mappa', 'Registro', 'Storico', 'Browser multimediale', 'Strumenti per sviluppatori', 'Supervisor', and 'Impostazioni'. The main content area is titled 'Profilo' and contains several settings with toggle switches: 'Plancia' (set to 'default'), 'Modifica l'ordine e nascondi gli elementi dalla barra laterale' (with a 'MODIFICA' link), 'Nascondi sempre la barra laterale' (toggle off), 'Vibrare' (toggle on), 'Notifiche push' (toggle off), 'Modalità avanzata' (toggle on, with a red '2' next to it), 'Chiudi automaticamente la connessione' (toggle on), and 'Keyboard Shortcuts' (toggle on). At the bottom left of the app, there is a notification bell icon and a user profile card for 'Sandro' with a red '1' next to it. At the bottom right of the settings page, there is a red 'DISCONNETTI' button.

Check the configuration before restart



If OK please restart, otherwise check the errors. **Don't restart without FIX the ERRORS**

Mqtt setup



MQTT

Inserisci le informazioni di connessione del tuo broker MQTT.

Broker*
192.168.1.157

Porta*
1883

Nome utente
sdomotica

Password
sdomotica

IN VIA

192.168.1.157

Casa

Updater RPI Power status

KeyPad Status

- Ksenia Centrale Disinserimento test

Centrale Info

- Ksenia Info Centrale BT-4200 16IP
- Ksenia Info Panel 1 BTICINO

Zone Status

- Sensore Finestra 1 status NORMAL
- Sensore porta ingresso status NORMAL
- Sensore doppio bilanciamento ... NORMAL

Controllo Partizioni

Toggle switch

Info Documentation **Configuration** Log

Mosquitto broker

Configuration

```
1 logins:  
2   - username: sdomotica  
3     password: sdomotica  
4 anonymous: true  
5 customize:  
6   active: false  
7   folder: mosquitto  
8 certfile: fullchain.pem  
9 keyfile: privkey.pem  
10 require_certificate: false  
11
```

RESET TO DEFAULTS SAVE

Works with Legrand – Cloud Setup

Create a Works with Legrand user

Create Sdomotica Webapp

Subscribe Legrand Starter Kit API

Link into Thermostat App your thermostats with Works with Legrand Account

Sdomotica Gateway Setup and link to Works With Legrand Cloud

Show Smarthers info and build for Home Assistant

Create a Works with Legrand user

- <https://developer.legrand.com/>

The screenshot shows a web browser window with the URL <https://developer.legrand.com/>. The page features the Legrand logo and a navigation menu with links for HOME, SOLUTIONS, PARTNERS, API, FORUM, and DOCUMENTATION. A search bar and a 'SIGN IN' button are also visible. The main content area is highlighted with a purple border and contains two sections:

New API for MyHOME_Up
This automation solution allows you to manage remotely your lighting, rolling shutters, heater and so on thanks to a unique server. Enjoy Cloud features for all your MyHOME system!
[Click here to discover the API](#)

Works with Legrand a program to innovate living and working spaces

It is an open interoperable platform, strategic part of Eliot, the **Legrand** innovative program dedicated to accelerate deployment of connected devices in its offer. Compatible with major IoT global players, it allows to connect with Legrand ecosystem in a lot of ways. **Works with Legrand** breaks boundaries and, thanks to important partnerships, allows startups, independent developers or leading companies to interact with Legrand's offer and to integrate its products into

WORKS WITH legrand

Sign Up (you can use a different mail used for Thermostat App)

Confirm Password

SURNAME

Surname

GIVEN NAME

Given Name

COUNTRY

Country

DISPLAY NAME

Display Name

LANGUAGE

Language

I have read and agree to the terms and conditions and the privacy policy
[Terms and Conditions / Privacy Policy](#)

Keep in touch with us and join our mailing list to receive occasional Legrand news by email

Participate to the improvement program of your product by sharing analytics of your application usage

Create

Homepage - Works with Legrand x

LEGRAND SNC [FR] | https://developer.legrand.com

legrand

HOME SOLUTIONS PARTNERS API FORUM DOCUMENTATION

Search SANDRO G

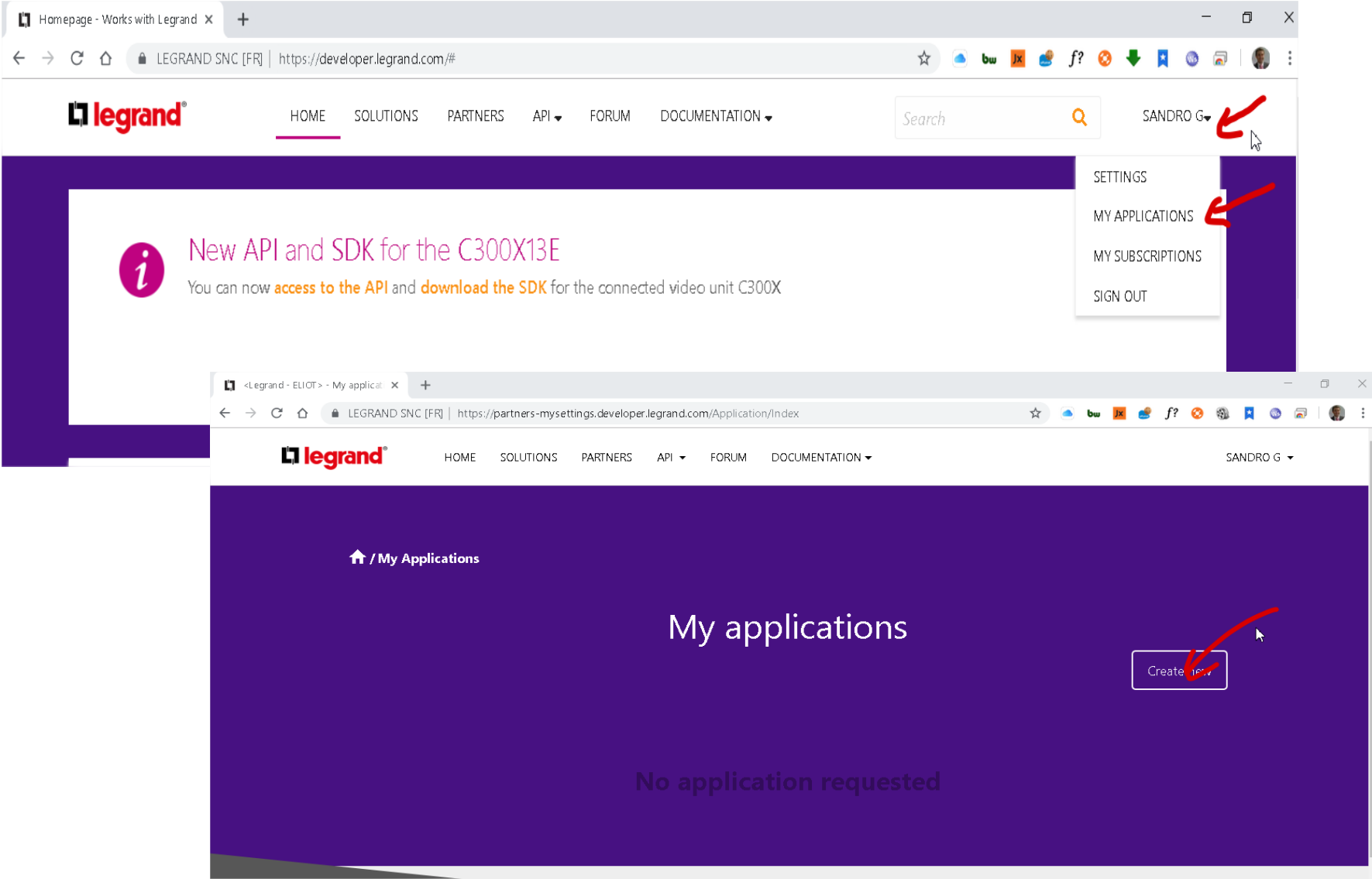
New API for MyHOME_Up

This automation solution allows you to manage remotely your lighting, rolling shutters, heater and so on thanks to a unique server. Enjoy Cloud features for all your MyHOME system!

[Click here to discover the API](#)

Works with Legrand a program to innovate living and working spaces

Create Sdomotica Webapp



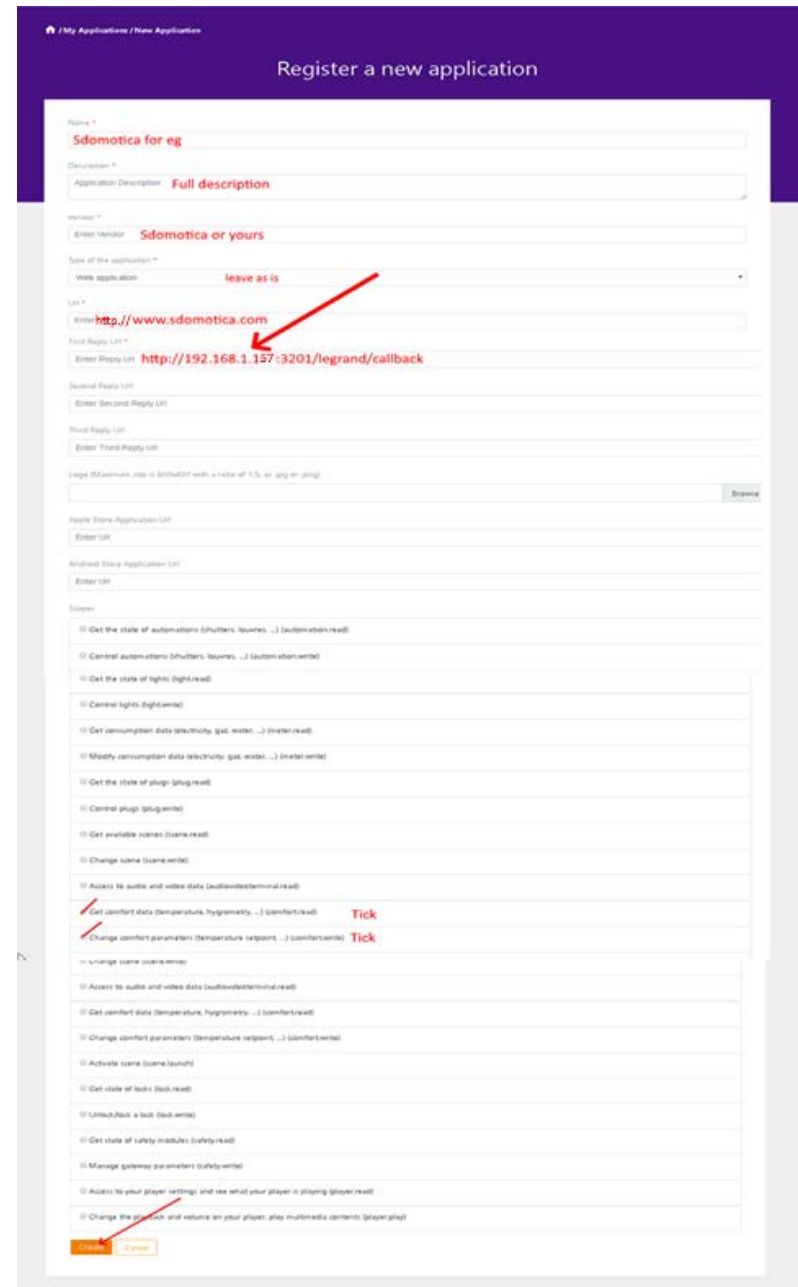
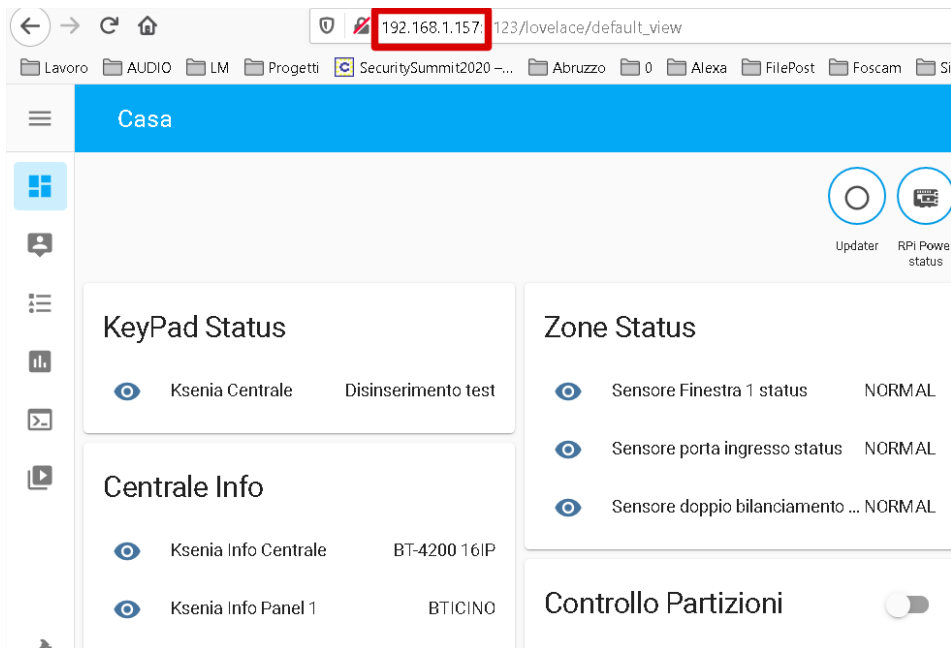
For Smarther fill the following fields for create your application

Please be careful on first replay url. It must be the IP of your raspberry

and exactly this url (change only IP)

<http://192.168.1.157:3201/legrand/callback>

In next pages zoomed images



Home / My Applications / New Application

Register a new application

Name *
Sdomotica for eg

Description *
Application Description Full description

Vendor *
Enter Vendor Sdomotica or yours

Type of the application *
Web application leave as is

Uri *
Enter Uri http://www.sdomotica.com

First Reply Uri *
Enter Reply Uri http://192.168.1.157:3201/legrand/callback

Second Reply Uri
Enter Second Reply Uri


Third Reply Uri
Enter Third Reply Uri

Logo (Maximum size is 600x400 with a ratio of 1.5, as .jpg or .png)
Browse

Apple Store Application Uri
Enter Uri

Android Store Application Uri
Enter Uri

Scopes

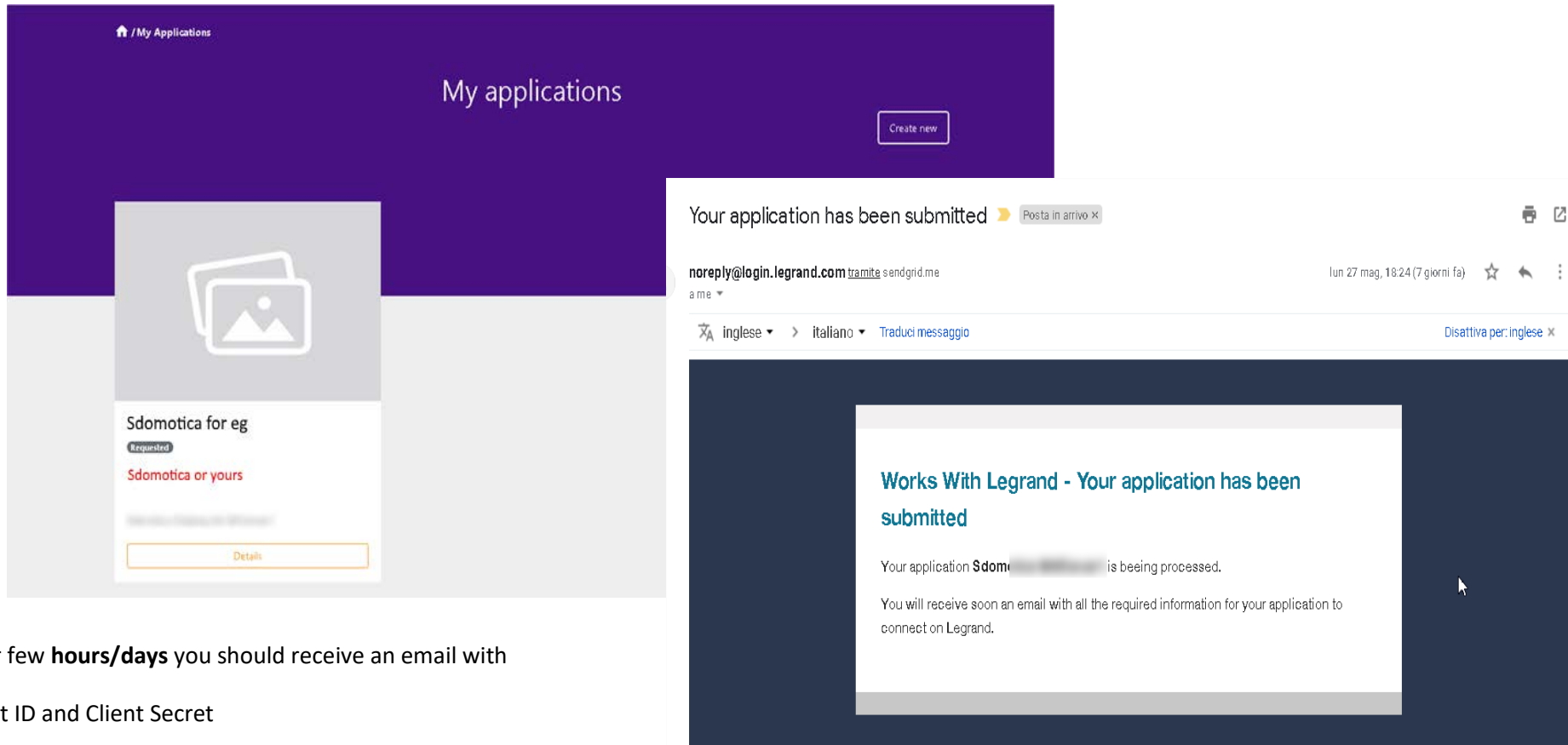


Enter Url

Scopes

- Get the state of automations (shutters, louvres, ...) (automation.read)
- Control automations (shutters, louvres, ...) (automation.write)
- Get the state of lights (light.read)
- Control lights (light.write)
- Get consumption data (electricity, gaz, water, ...) (meter.read)
- Modify consumption data (electricity, gaz, water, ...) (meter.write)
- Get the state of plugs (plug.read)
- Control plugs (plug.write)
- Get available scenes (scene.read)
- Change scene (scene.write)
- Access to audio and video data (audiovideoterminal.read)
- Get comfort data (temperature, hygrometry, ...) (comfort.read) **Tick**
- Change comfort parameters (temperature setpoint, ...) (comfort.write) **Tick**
- Change scene (scene.write)
- Access to audio and video data (audiovideoterminal.read)
- Get comfort data (temperature, hygrometry, ...) (comfort.read)
- Change comfort parameters (temperature setpoint, ...) (comfort.write)
- Activate scene (scene.launch)
- Get state of locks (lock.read)
- Unlock/lock a lock (lock.write)
- Get state of safety modules (safety.read)
- Manage gateway parameters (safety.write)
- Access to your player settings and see what your player is playing (player.read)
- Change the playback and volume on your player, play multimedia contents (player.play)

Now your application is under approbation by Legrand, you will receive an email

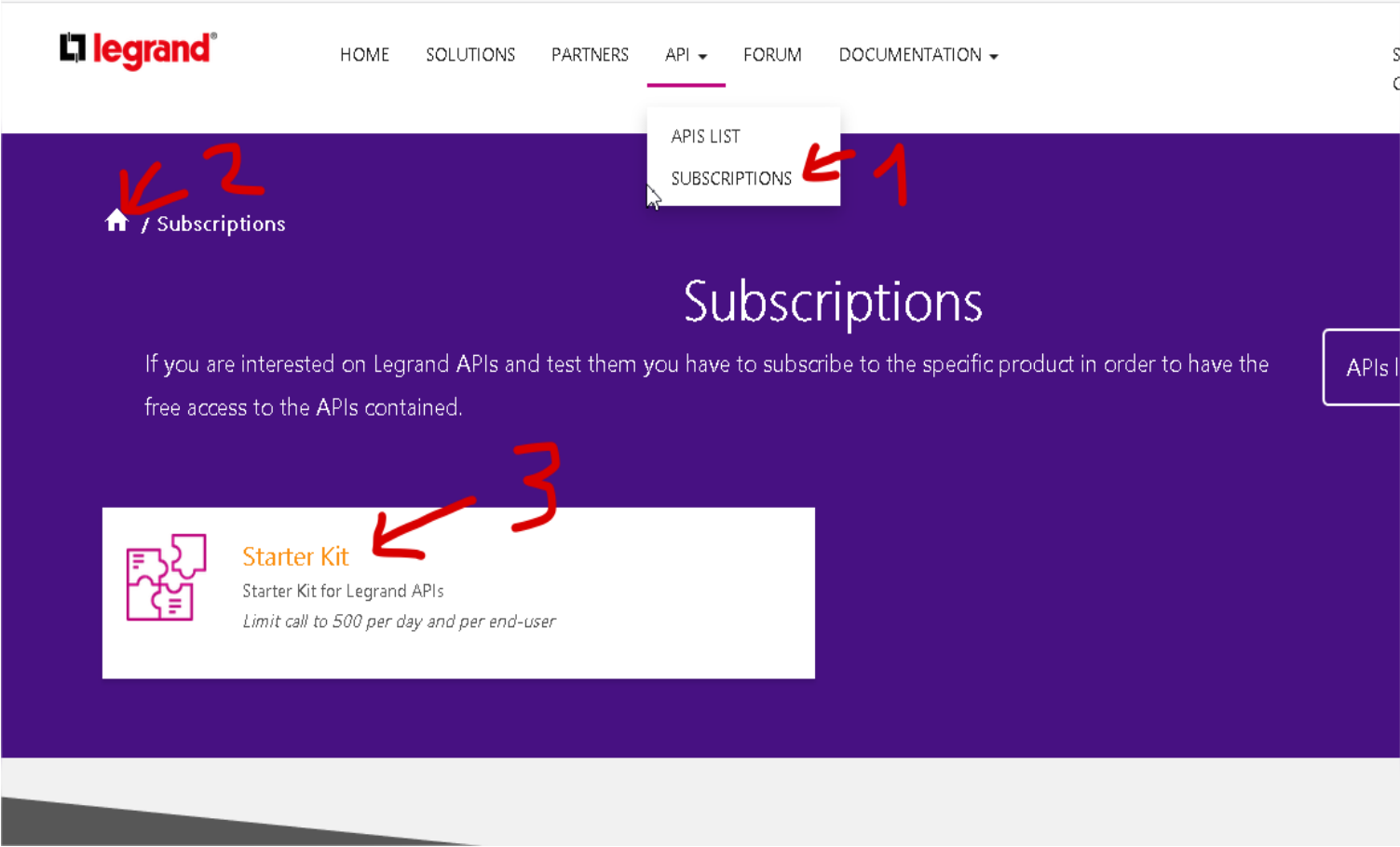


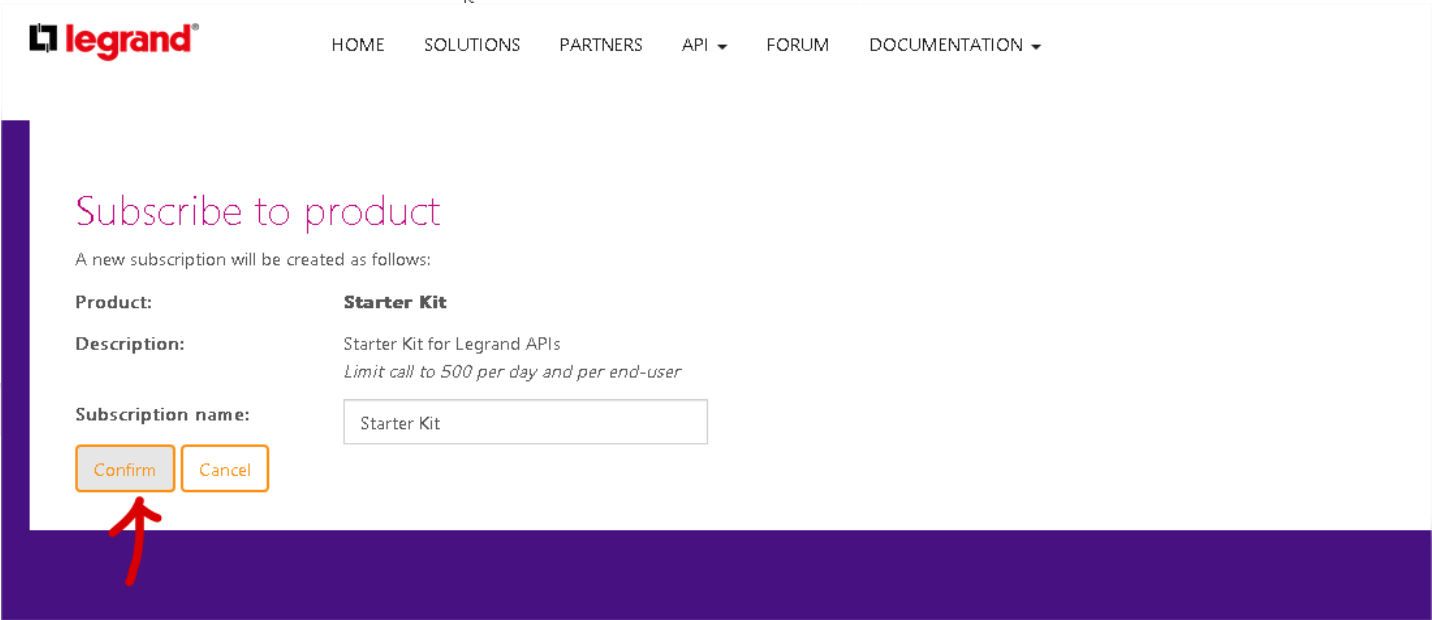
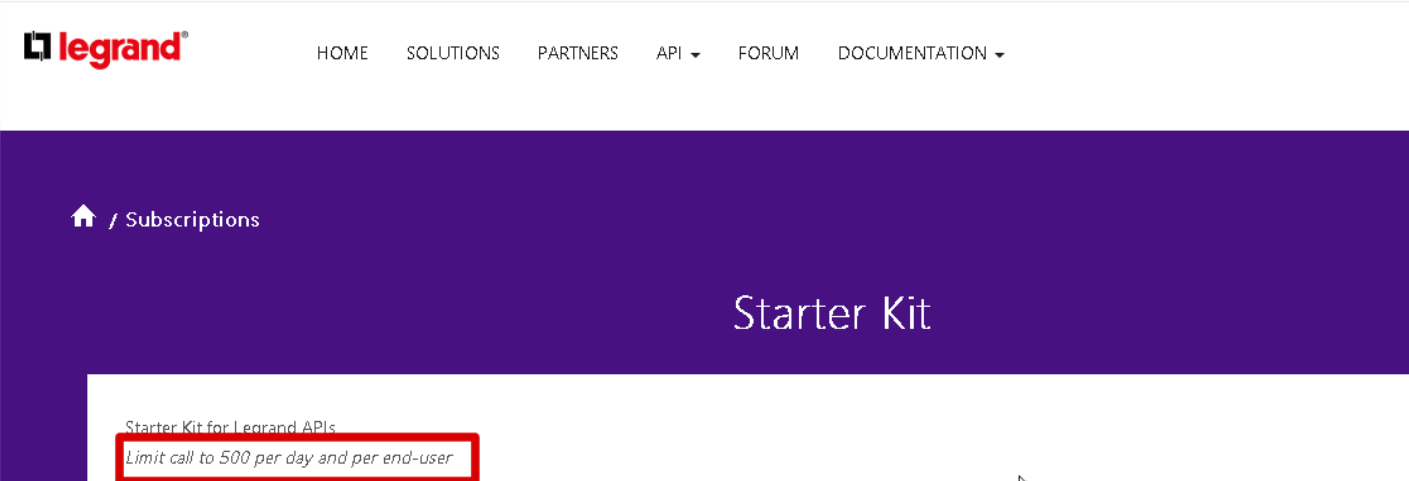
After few **hours/days** you should receive an email with Client ID and Client Secret

Please wait these before go to the next step

Subscribe Legrand Starter Kit API

Waiting to receive the Legrand’s mail with client id and client secret you have to subscribe Legrand Starter Kit API (we need primary key)





You should receive two emails for confirmation

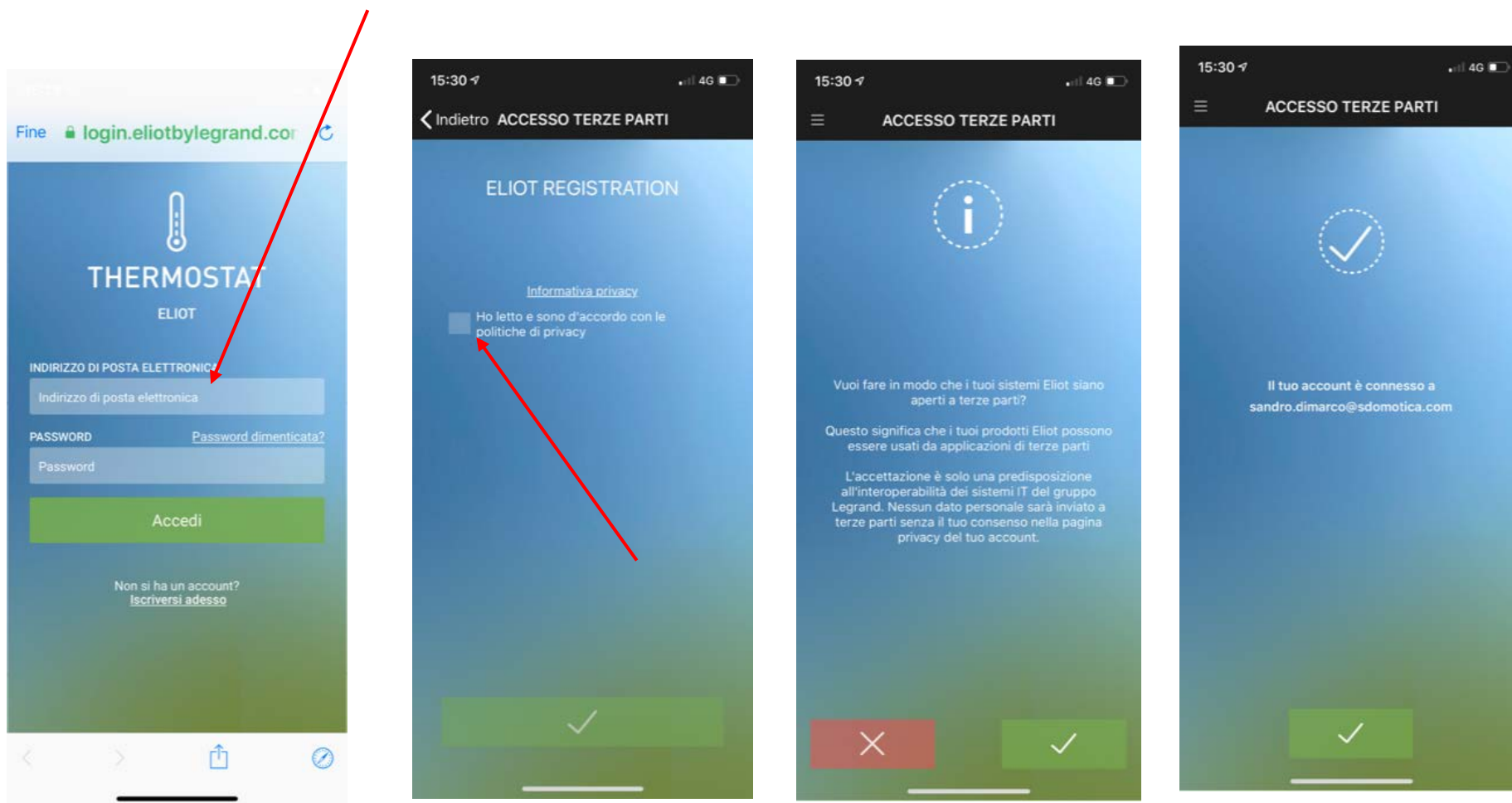
The image displays two screenshots of emails from Legrand. The left screenshot is titled "Welcome to the Legrand API!" and is addressed to Sandro. It contains the following text: "Dear Sandro", "Your Legrand API program registration is completed and we are t", "Please use the following **AadB2C account** when signing into an; hosted developer portals:", "We will direct all communications to the following **email addres", "Best of luck in your API pursuits!", "Legrand API Team", and a link to portal.developer.legrand.com. The right screenshot is titled "Your subscription to the Starter Kit" and is also addressed to Sandro. It contains the following text: "Greetings Sandrc", "Thank you for subscribing to the **Starter Kit** and welcome to the Legrand developer community. We are delighted to have you as part of the team and are looking forward to the amazing applications you will build using our API!", "Below are a few subscription details for your reference:", "• Start date: 6/3/2019", "Visit the developer [profile area](#) to manage your subscription and subscription keys", "A couple of pointers to help get you started:", "[Learn about the API](#)", "The API documentation provides all information necessary to make a request and to process a response. Code samples are provided per API operation in a variety of languages. Moreover, an interactive console allows making API calls directly from the developer portal without writing any code.", "[Feature your app in the app gallery](#)", "You can publish your application on our gallery for increased visibility to potential new users.", "Happy hacking.", and "The Legrand API Team". Both screenshots show the email header with the sender "Legrand <apimgmt-noreply@mail.windowsazure.com>" and the time of receipt.**

Link into Thermostat App your thermostats with Works with Legrand Account

Link your Thermostat App with the **mail** used for Works With Legrand



Link your Thermostat App with the **mail** used for Works With Legrand

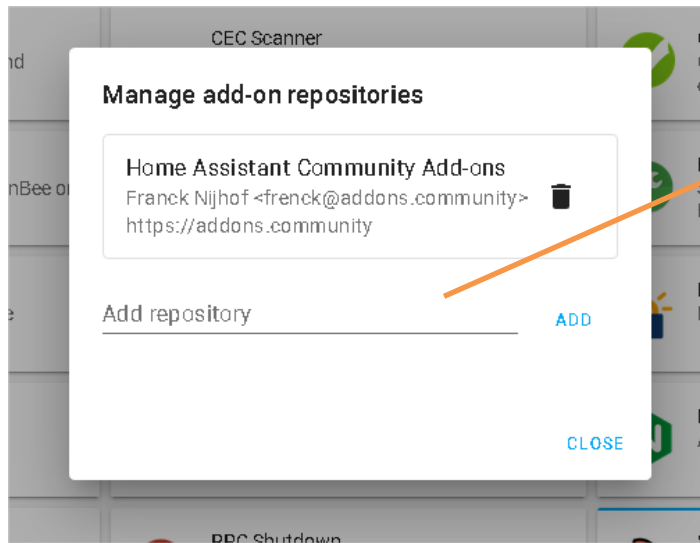


Add-on Installation

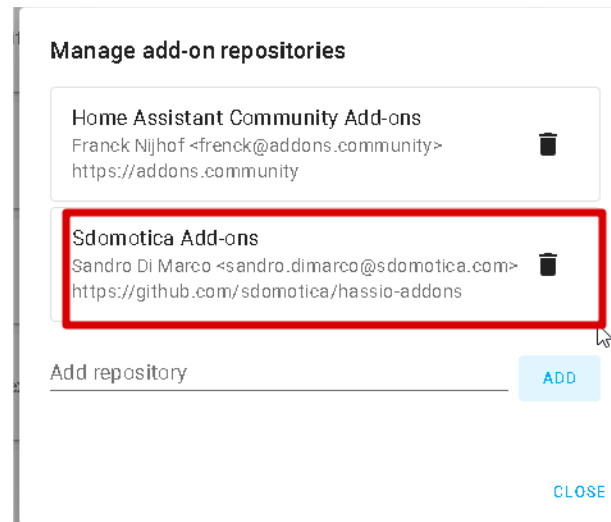
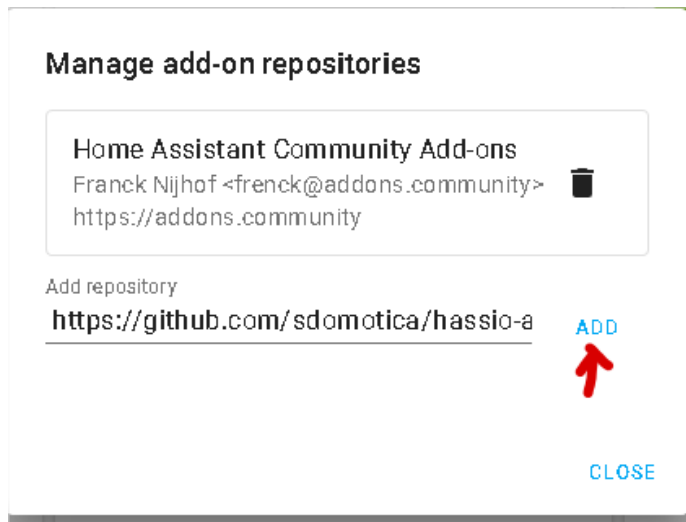
As every Hass.io add-ons please add our repository <https://github.com/sdomotica/hassio-addons>

The screenshot shows the Home Assistant interface with the 'Add-on store' tab selected. A red bracket highlights the 'Add-on store' tab, and a red arrow points to the 'Repositories' option in the top right menu. Another red arrow points to the 'Reload' option below it. The main area displays a grid of official add-ons:

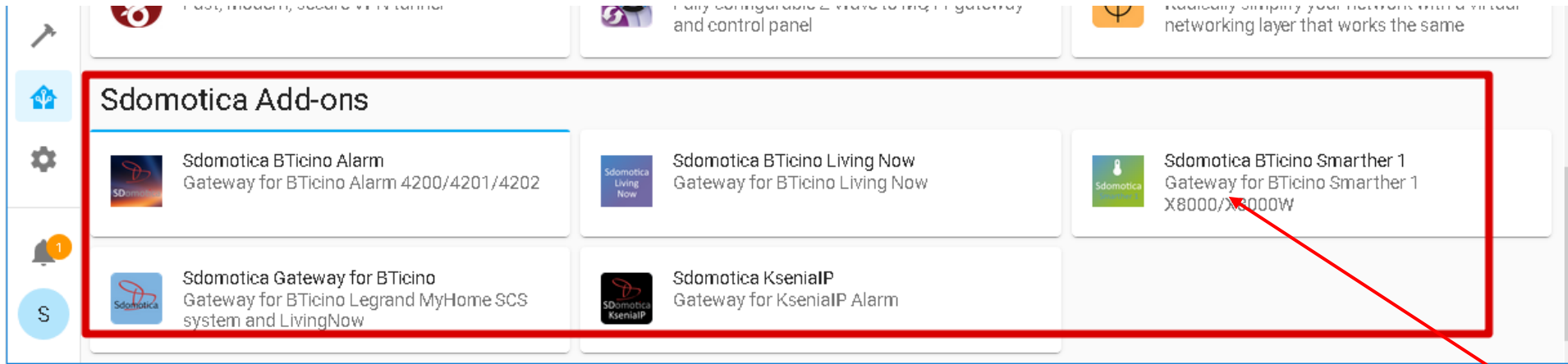
Official add-ons		
Almond The home server version of Almond	CEC Scanner Scan for HDMI CEC devices	Check Home Assistant configuration Check current Home Assistant configuration against a new version
deCONZ Control a Zigbee network with ConBee or RaspBee by Dresden Elektronik	Duck DNS Free Dynamic DNS (DynDNS or DDNS) service with Let's Encrypt support	File editor Simple browser-based file editor for Home Assistant
Hey Ada! Voice assistant powered by Home Assistant	HomeMatic CCU HomeMatic central based on OCCU	Let's Encrypt Manage certificate from Let's Encrypt
MariaDB An SQL database server	Mosquitto broker An Open Source MQTT broker	NGINX Home Assistant SSL proxy An SSL/TLS proxy
OpenZWave Control a ZWave network with Home Assistant	RPC Shutdown Shutdown Windows machines remotely	Samba share Expose Home Assistant folders with SMB/CIFS



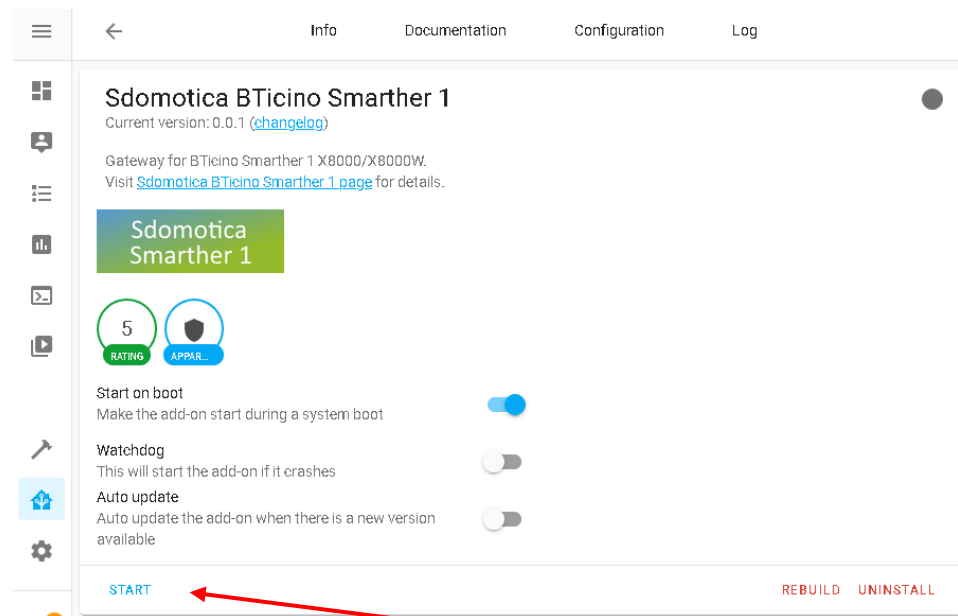
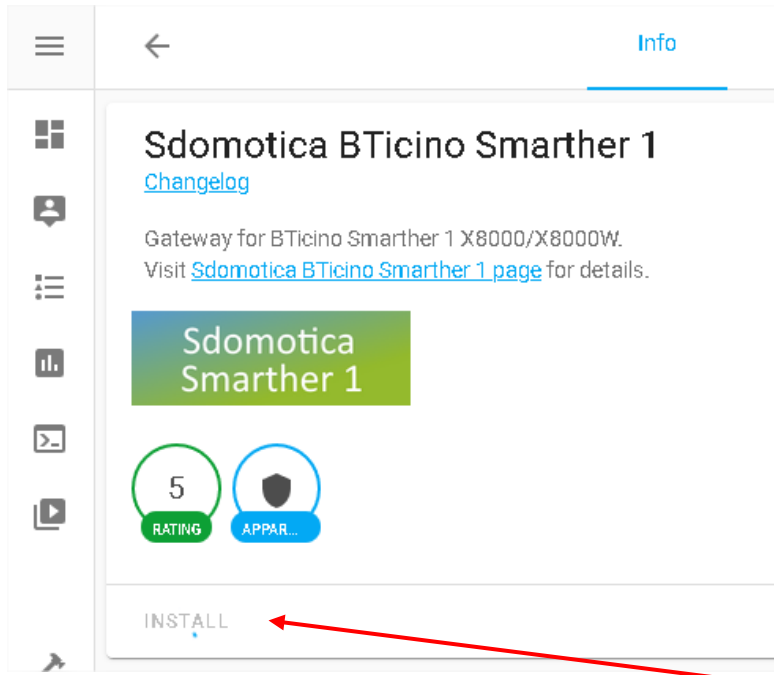
<https://github.com/sdomotica/hassio-addons>



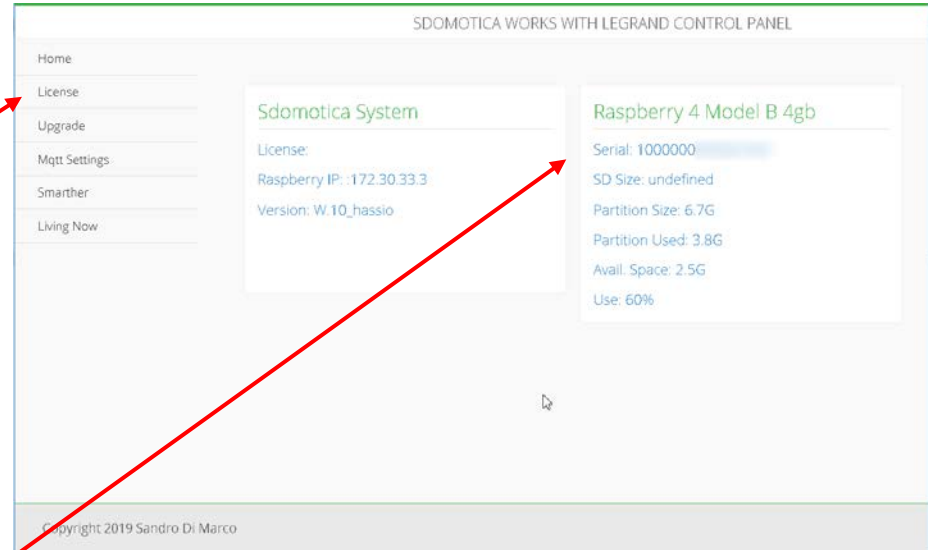
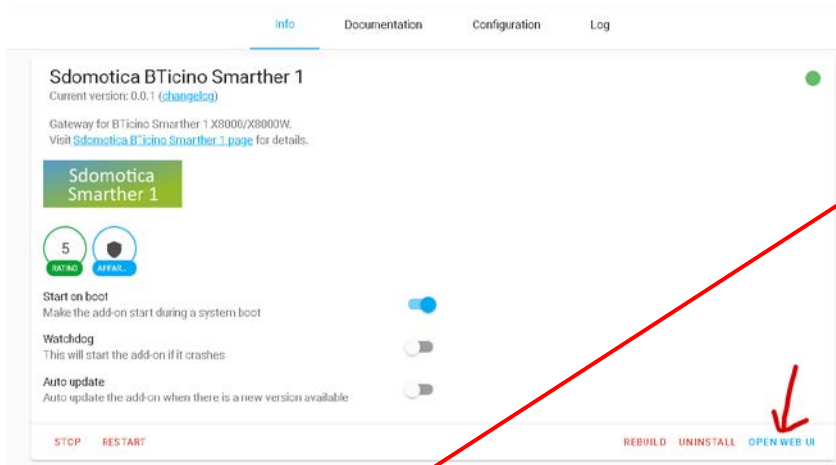
Scroll at the end of the page and



This take long time, on my Raspberry Pi 3B+ required 4 minutes to install the add-on



Sdomotica BTicino Smarther 1 Setup and link to Works With Legrand Cloud



License

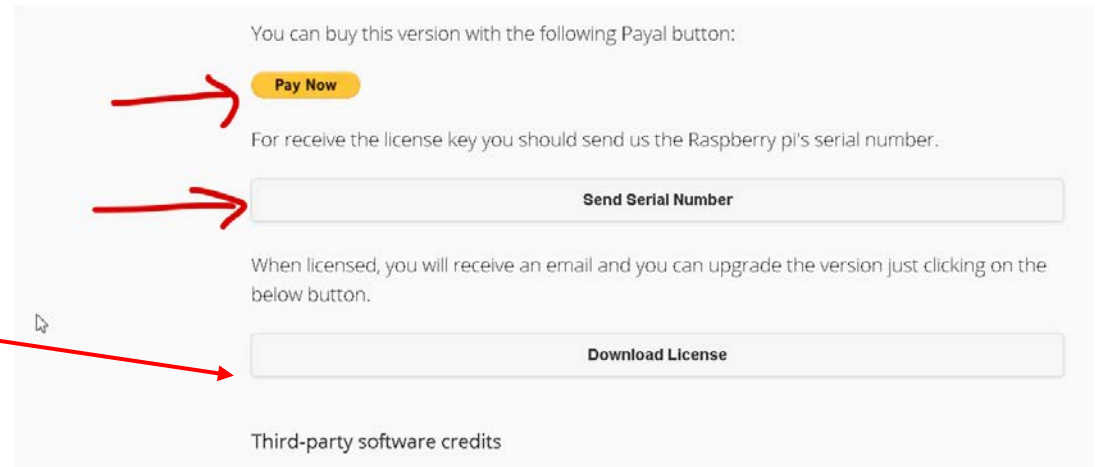
Sdomotica is a paid software. For enable it you need to send me by email sandro.dimarco@sdomotica.com the Raspberry Serial Number

The price is 99 Euro lifetime and the license is linked to serial number.

I need time to generate the license, when done I'll replat by email and

you can click on download license.

Restart the Addon



Mqtt setup

Fill data, Save and Restart Addon

MQTT CONFIG PAGE

Mqtt Settings

Mqtt Host	192.168.1.157
Mqtt Port	1883
Mqtt Username	sdomotica
Mqtt Password
Log Level	1
Smarther Topic	smarther_set
Living Now Topic	livingnow_set
MyHomeServer1 Topic	myhome1_set
Door Entry Topic	doentry_set

Save Mqtt Settings

192.168.1.157:123/lovelace/default_view

Casa

Updater RPI Power status

KeyPad Status

Ksenia Centrale	Disinserimento test
-----------------	---------------------

Zone Status

Sensore Finestra 1 status	NORMAL
Sensore porta ingresso status	NORMAL
Sensore doppio bilanciamento ...	NORMAL

Centrale Info

Ksenia Info Centrale	BT-4200 16IP
Ksenia Info Panel 1	BTICINO

Controllo Partizioni

Info Documentation **Configuration** Log

Mosquitto broker

Configuration

```
1 logins:
2 - username: sdomotica
3   password: sdomotica
4   anonymous: true
5 customize:
6   active: false
7   folder: mosquitto
8   certfile: fullchain.pem
9   keyfile: privkey.pem
10  require_certificate: false
11
```

RESET TO DEFAULTS

SAVE

inf Documentation Configuration

Sdomotica BTicino Smarther 1

Current version: 0.0.1 (change log)

Gateway for BTicino Smarther 1 X8000/X8000W.
Visit [Sdomotica BTicino Smarther 1](#) page for details.

Sdomotica Smarther 1

5 STATUS OFFLINE

Start on boot
Make the add-on start during a system boot



Watchdog
This will start the add-on if it crashes.

Auto update
Automatically update the add-on when there is a new version available.

STOP RESTART

Link to Works With Legrand Cloud

SMARTHER CONFIG PAGE

- Home
- License
- Smarther 
- Settings 
- Info and Build
- Living Now

Works with Legrand - Smarther

Client Id	<input type="text" value="Please fill"/>	
Client Secret	<input type="text" value="Please fill"/>	
Primary Key	<input type="text" value="Please fill"/>	
Redirect Url	<input type="text" value="Please fill"/>	
API version	<input type="text" value="v2.0"/>	

Connection Status

No client IDs set

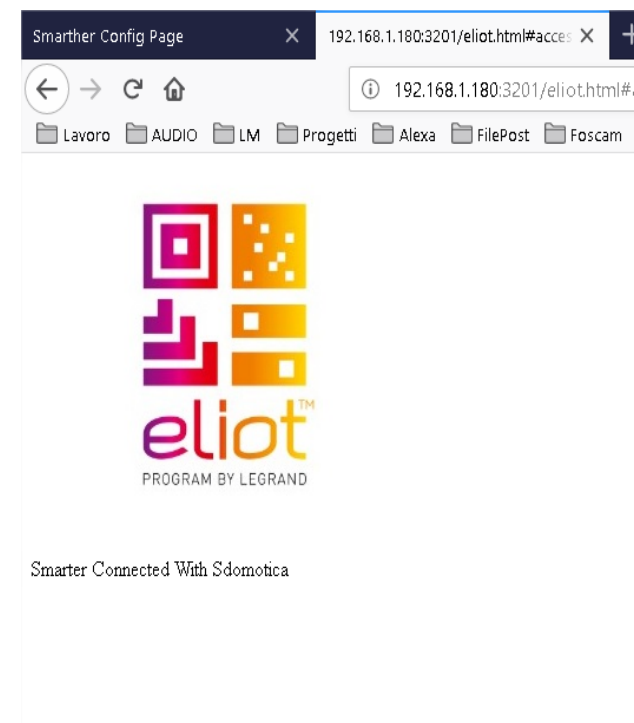
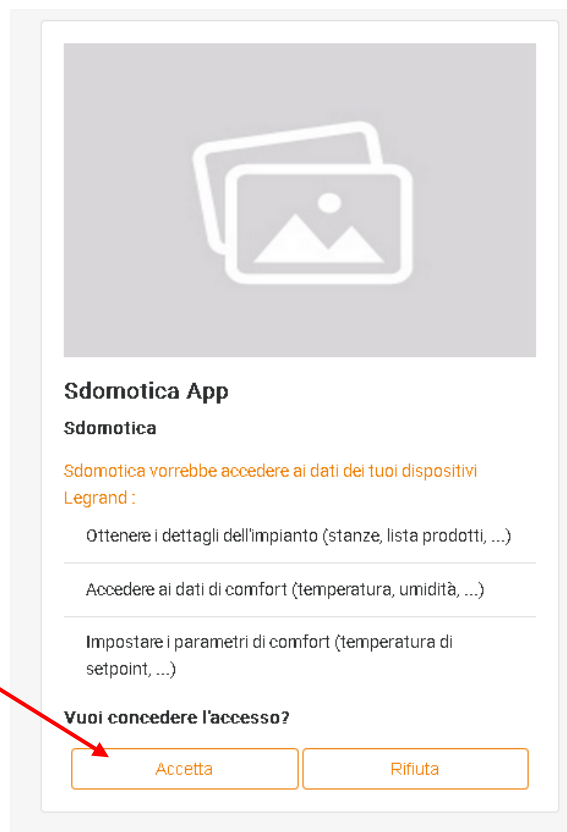
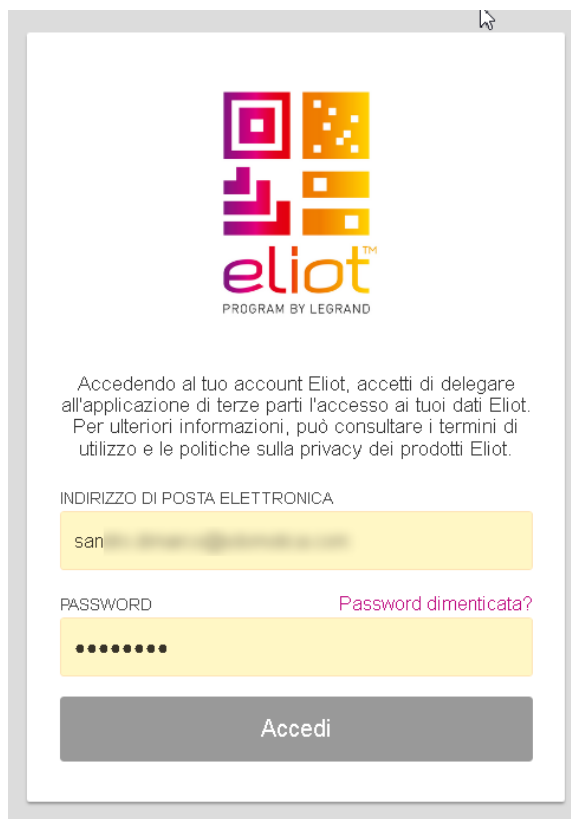
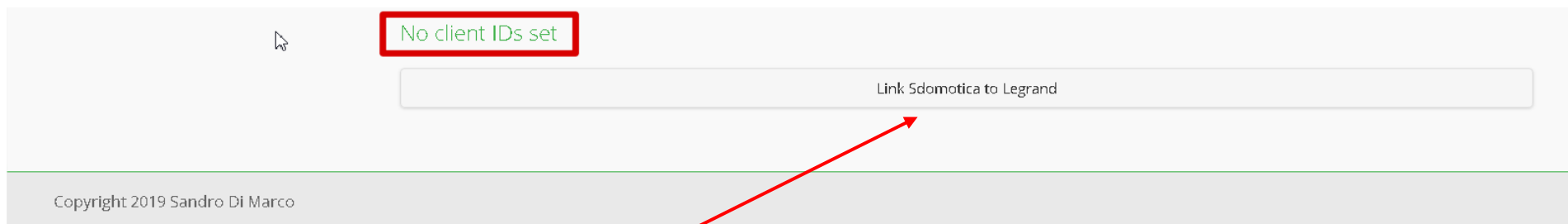
Now you can click on Save Client Settings and then Link Sdomotica to Legrand

The screenshot shows the 'SMARTHER CONFIG PAGE' with a sidebar on the left containing links for Home, License, Smarther, Settings, Info and Build, and Living Now. The main content area is titled 'Works with Legrand - Smarther' and contains a form with the following fields:

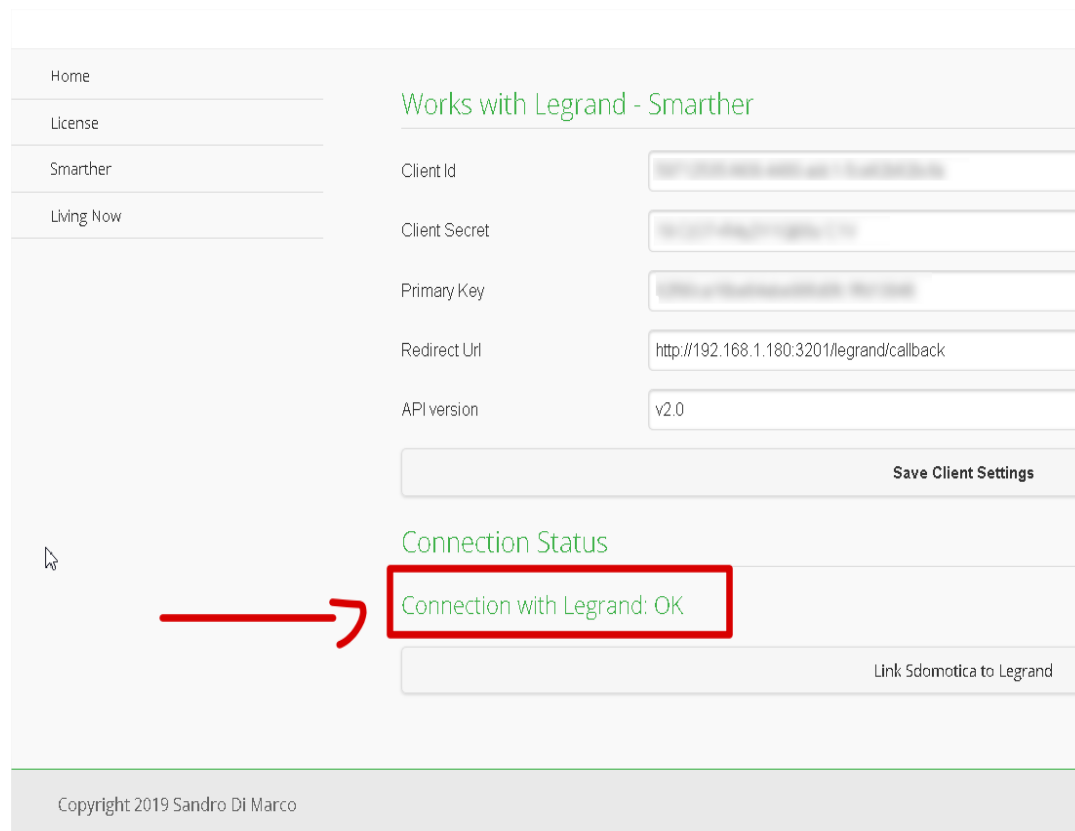
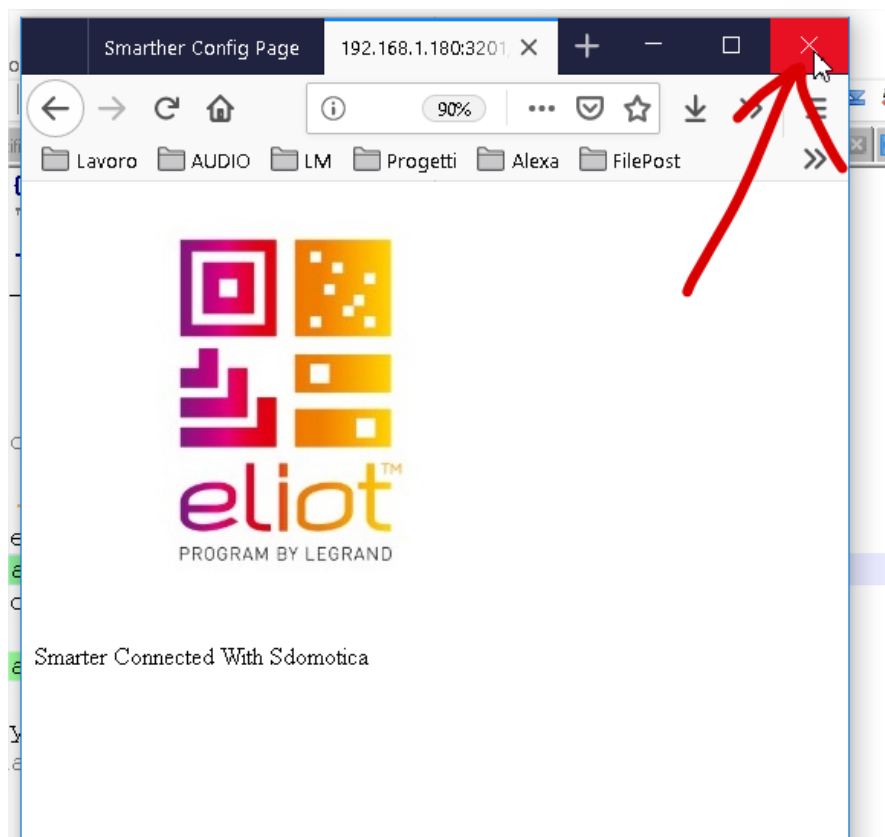
- Client Id: 597
- Client Secret: 19
- Primary Key: 82f
- Redirect Url: http://192.168.1.180:3201/legrand/callback
- API version: v2.0

At the bottom of the form is a 'Save Client Settings' button, which is highlighted with a blue border and a red arrow pointing to it from the left.

This close-up view shows the 'Save Client Settings' button at the bottom of the page. A white dialog box with the text 'Saved' and an 'OK' button is centered on the screen, indicating that the settings have been successfully saved. The background is dimmed, showing the 'Save Client Settings' button and parts of the form fields.



Close the browser and and you should have this, refresh Addon Webinterface (F5)



Check the connection with your data

Now you can see all the Ids relating to your Smarthers and Homes

The image displays three sequential screenshots of the Smarther Info web interface. The top screenshot shows the 'Load User's Plants' button with a red arrow pointing to it. The middle screenshot shows the button clicked, resulting in a table with one row: Chiasso, 84765, and a redacted ID. A red arrow points to the 'Show' button next to this row. The bottom screenshot shows the 'Show' button clicked, revealing a 'Devices - Chiasso' table with two rows of device information.

Screenshot 1: Smarther Info

Home
License
Smarther
Settings
Info and Build
Living Now

Smarther Info

Load User's Plants

Screenshot 2: Smarther Info

Home
License
Smarther
Settings
Info and Build
Living Now

Smarther Info

Load User's Plants

Plant	ID	Topology
Chiasso	84765	[Redacted]

Show

Screenshot 3: Smarther Info

Home
License
Smarther
Settings
Info and Build
Living Now

Smarther Info

Load User's Plants

Plant	ID	Topology
Chiasso	84	[Redacted]

Show

Devices - Chiasso

Name	ID	Device	Status	Home Assistant	OpenHab
Soggiorno	[Redacted]	chronothermostat	Show	Build	Build
Secondo	[Redacted]	chronothermostat	Show	Build	Build

Button Show

The screenshot shows a web browser window with the URL `192.168.1.180:3201/#Smarther_info`. The page title is "SMARTHER INFO". On the left is a navigation menu with items: Home, License, Smarther, Settings, Info and Build, and Living Now. The main content area is titled "Smarther Info" and contains a "Load User's Plants" button. Below this is a table with columns "Plant", "ID", and "Topology". One row is visible for "Chiasso". Below the table is a section "Devices - Chiasso" with a table of devices. The first device is "Soggiorno" with ID "dd...", device type "chronothermostat", and status "Show". A red arrow points to this "Show" button. Other columns in this table are "Home Assistant" and "OpenHab", both with "Build" buttons. Below the devices table is a section "Measures: Chiasso - Soggiorno" with a table of sensor data.

Plant	ID	Topology
Chiasso	8...	Show

Name	ID	Device	Status	Home Assistant	OpenHab
Soggiorno	dd...	chronothermostat	Show	Build	Build
Secondo	d8...	chronothermostat	Show	Build	Build

What	Value
Function	HEATING
Mode	AUTOMATIC
SetPoint	16.00000 C
Program n°	1
Load State	INACTIVE
Time	2019-06-03T15:41:18+02:00
Temperature	28.8 C
Temperature Time	2019-06-03T15:41:18+02:00
Humidity	47.3 %
Humidity Time	2019-06-03T15:41:18+02:00

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Home Assistant Package

Now you can build the package yaml for Home Assistant

The screenshot shows the 'Smarther Info' page. At the top, there is a 'Load User's Plants' button. Below it is a table with columns: Plant, ID, and Topology. The first row shows 'Chiasso' with ID '8476aa7b-7685-5f2e-e053-27182d0a310b' and a 'Show' button. Below this is a section titled 'Devices - Chiasso' with a table containing two rows of device information. Each row has columns for Name, ID, Device, Status, Home Assistant, and OpenHab. The 'Home Assistant' column contains a 'Build' button. Red arrows point to these 'Build' buttons.

Plant	ID	Topology
Chiasso	8476aa7b-7685-5f2e-e053-27182d0a310b	Show

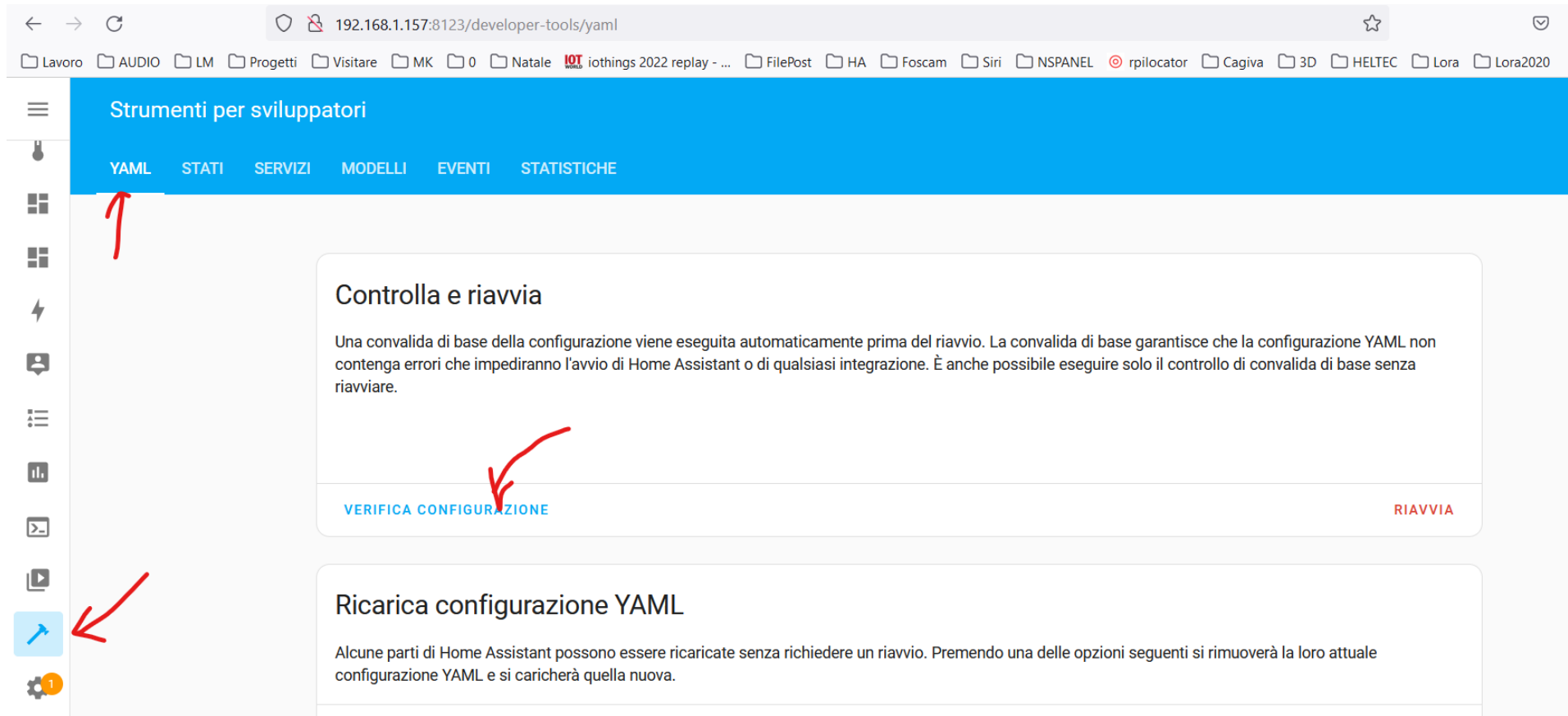
Name	ID	Device	Status	Home Assistant	OpenHab
Soggiorno	dd78aa7b-ad43-c22e-e053-27182d0addda	chronothermostat	Show	Build	Build
Secondo	d8c48881-633c-9a02-e053-27182d0a3943	chronothermostat	Show	Build	Build

The screenshot shows a terminal window with the following text: '192.168.1.157:3201 dice', 'Buidled Smarther Soggiorno package. Please check config and restart HA', and an 'OK' button.

```

192.168.1.157:3201 dice
Buidled Smarther Soggiorno package. Please check config and restart
HA
OK
  
```

Check the configuration before restart



If OK please restart, otherwise check the errors. **Don't restart without FIX the ERRORS some errors are relating climate and cover, check next page to solve**

Restart your Home Assistant