

Mosaic software manual



April, 2022

Technical support:
support@openrb.com

Copyright

Copyright © 2022 Embedded Systems SIA. All Rights Reserved.

Notice

Embedded Systems SIA reserves the right to modify the information contained herein as necessary. Embedded Systems SIA assumes no responsibility for any errors which may appear in this document. Information in this document is provided solely to enable system and software implementers to use LogicMachine products.

Trademarks

LogicMachine is a trademark of Embedded Systems SIA. All other names and trademarks are the property of their respective owners and are hereby acknowledged.

Introduction

Mosaic is an application of LogicMachine which is used for visualization of system automation. The different protocols could be combined in a visualization; there could be KNX, Modbus, BACnet, ZigBee, EnOcean and others. By using a Mosaic application you can create a complex system with a simple user-friendly interface.

Technical support

For any other technical questions use our forum at forum.logicmachine.net

Firmware updates are available at openrb.com/firmwares/

Table of contents

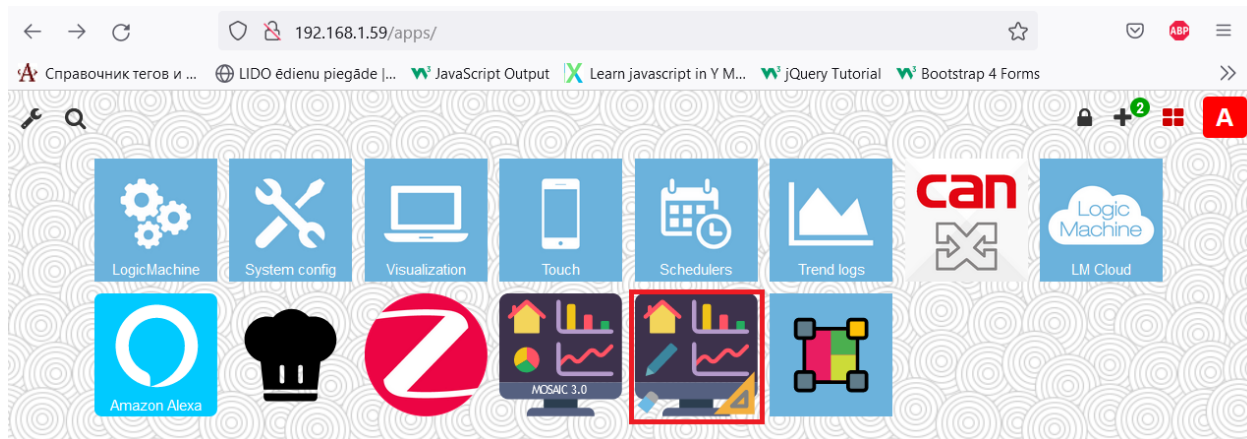
1. Mosaic quick start	3
2. Custom Widget	10
3. Mosaic and Cloud	14
4. Other widgets	20
4.1. HTML widget	20
4.2. Inline frame widget	21
4.3. Trends widget	23

1. Mosaic quick start

Mosaic app is the fastest way to create a simple visualization for your installation.

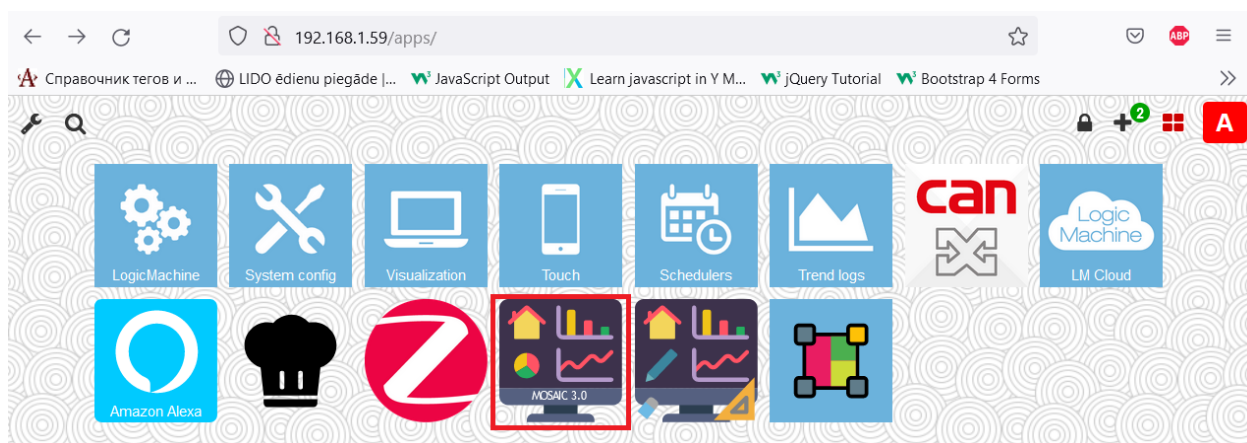
Getting started.

1. Open the controller's web interface by typing its IP address in your browser.
2. Click the Mosaic Admin Mode icon. You will see the constructor interface with a clear template.



3. Once you've entered the Admin Mode you are ready to construct a visualization.

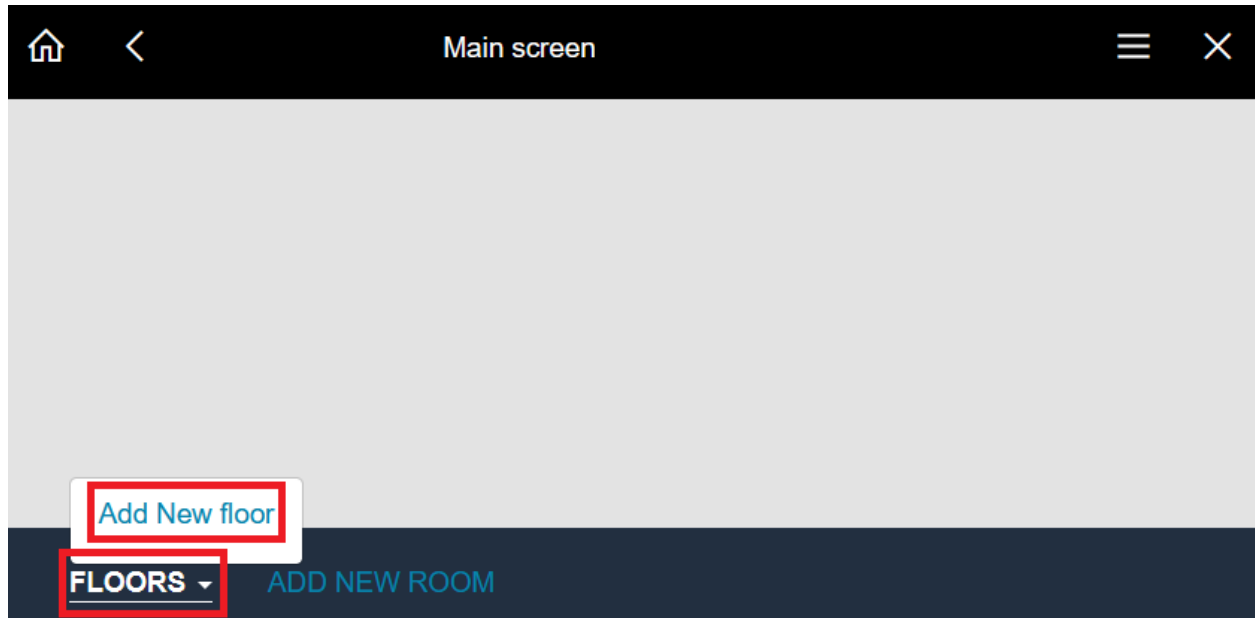
4. When you have made visualization, enter Client Mode.



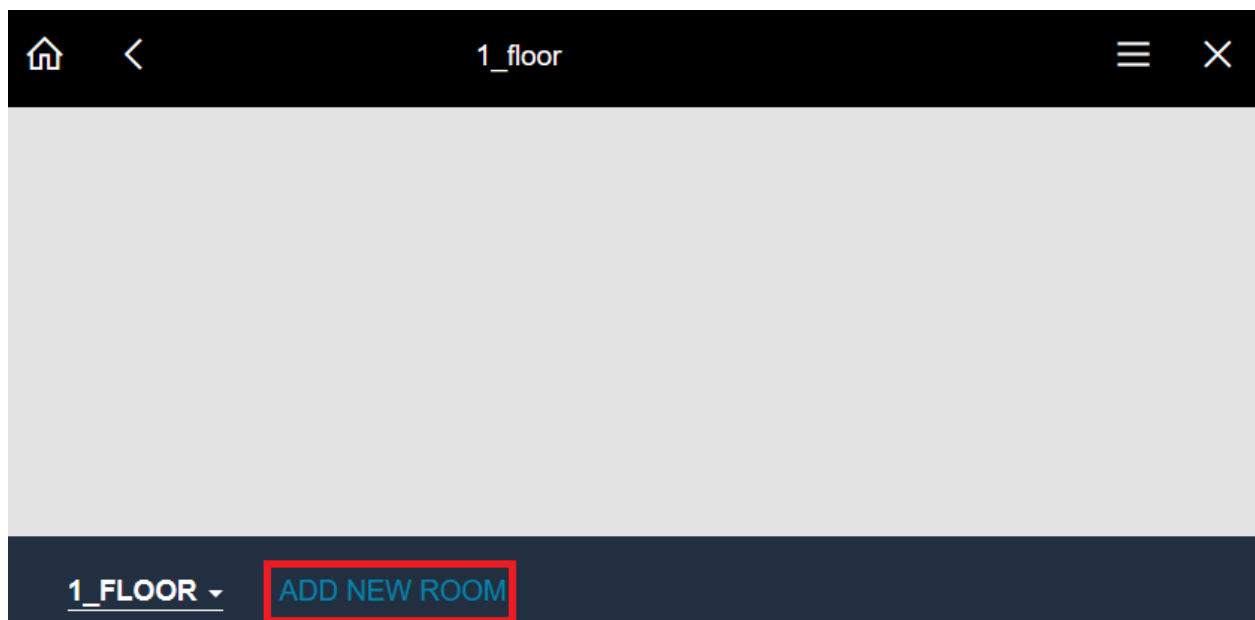
To create visualization use Mosaic Admin Mode



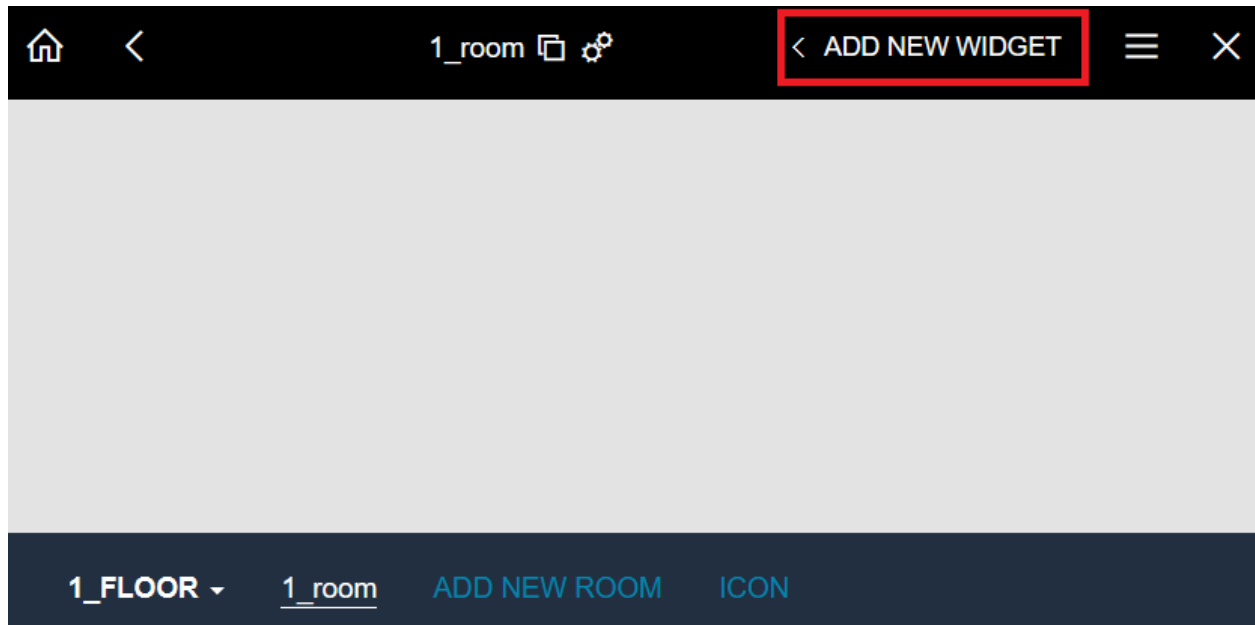
a.) Create a floor: Click on FLOORS → Add New floor , then enter the name of your floor and press enter.



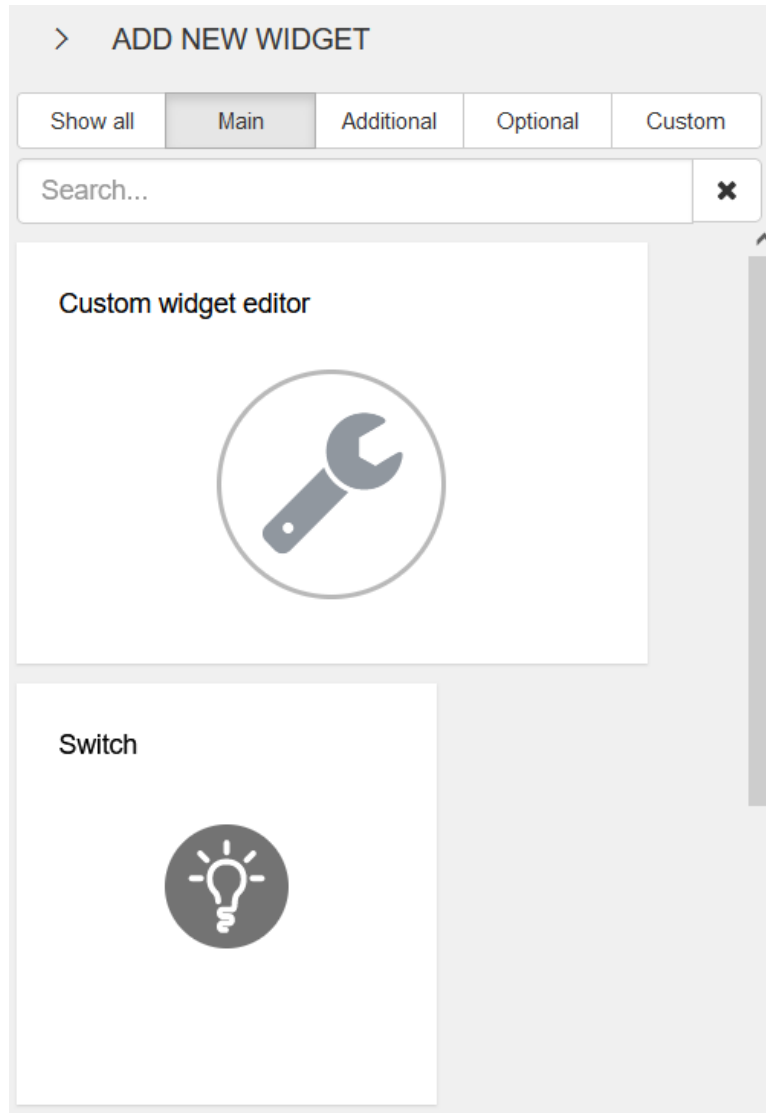
b.) Create a room, click on ADD NEW ROOM and enter the name of the room.



c.) Click on the ADD NEW WIDGET



d.) Select widget that you want to add



e.) Go to option “Objects”

Switch



General **Objects** **Appearance**

Title icon


Title

Functions

Widget size

2 X 2

☐ Auto-size widget on mobile devices

Button shape

Circle

State ON

Button color

Icon color

Icon


State OFF

Button color

Icon color

Icon


⬆ Import

⬇ Export

Cancel

Save

f.) Add KNX objects to widget (if you do not have any KNX objects then create them and reload Mosaic Admin page)

Switch ✕

General

Objects

Appearance

On/Off object *

Select object

On/Off status object

Select object

⬆ Import

⬇ Export

Cancel

Save

g.) When KNX objects have been selected, save the widget.

Switch ✕

General

Objects

Appearance

On/Off object *

32/1/1 (Light_for_mosaic) ✕

On/Off status object

32/1/2 (status) ✕

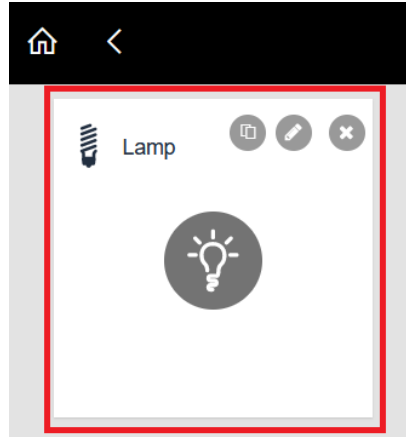
⬆ Import

⬇ Export

Cancel

Save

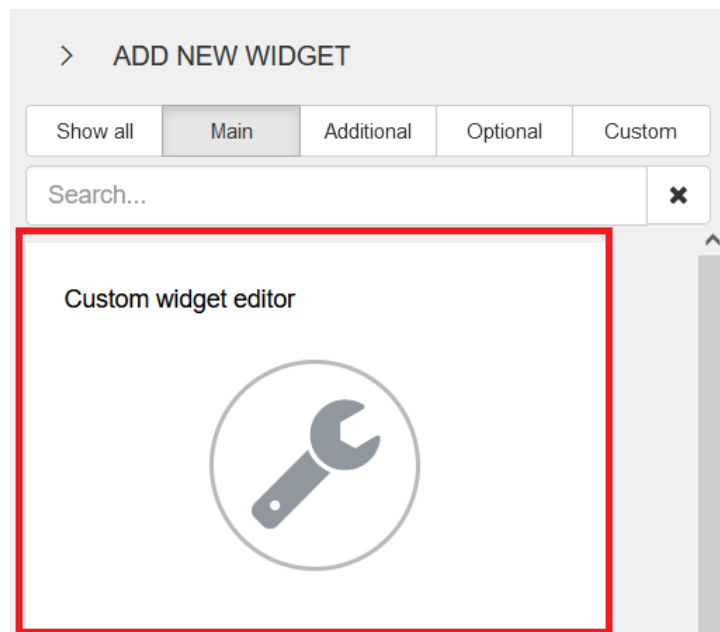
h.) Now you can go to Mosaic Client Mode (or stay in Admin Mode) and turn 'ON' or 'OFF' the widget, which will change the value of KNX objects.



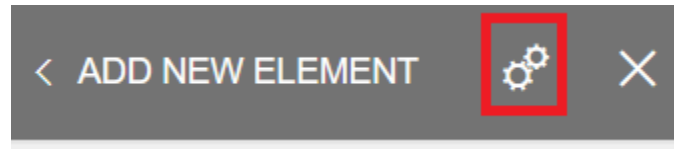
LogicMachine										Neighbours: Select neighbour		Language: English	Start page Logout																																																		
Objects	Object logs	Scripting	Schedulers	Trend logs	Scenes	Vis. structure	Visualization	Vis. graphics	Utilities	User access	Dali	Modbus	EnOcean	1-wire	Alerts	Logs	Error log	About																																													
Object filter Name or group address:										<table><tr><th>Group a...</th><th>Object name</th><th>IP > L...</th><th>Loc > ...</th><th>Event ...</th><th>Data type</th><th>Current value</th><th>Log</th><th>Export</th><th>Tags</th><th>Updated at</th><th>Set va...</th><th>Vis. p...</th><th>Custo...</th><th>Dele</th></tr><tr><td>32/1/1</td><td>Light_for_mosaic</td><td></td><td></td><td></td><td>01.001 switch</td><td>on</td><td></td><td></td><td></td><td>07 03 2022 ...</td><td></td><td></td><td></td><td></td></tr><tr><td>32/1/2</td><td>status</td><td></td><td></td><td></td><td>01.002 boole...</td><td>true</td><td></td><td></td><td></td><td>07 03 2022 ...</td><td></td><td></td><td></td><td></td></tr></table>									Group a...	Object name	IP > L...	Loc > ...	Event ...	Data type	Current value	Log	Export	Tags	Updated at	Set va...	Vis. p...	Custo...	Dele	32/1/1	Light_for_mosaic				01.001 switch	on				07 03 2022 ...					32/1/2	status				01.002 boole...	true				07 03 2022 ...				
Group a...	Object name	IP > L...	Loc > ...	Event ...	Data type	Current value	Log	Export	Tags	Updated at	Set va...	Vis. p...	Custo...	Dele																																																	
32/1/1	Light_for_mosaic				01.001 switch	on				07 03 2022 ...																																																					
32/1/2	status				01.002 boole...	true				07 03 2022 ...																																																					

2. Custom Widget

You can create a custom widget, by going to Admin mode and clicking on a “Custom Widget”.



You can change the size and other parameters of the Custom Widget by clicking on the settings button



> SETTINGS

Title

Functions

Title icon
No icon

Width
3

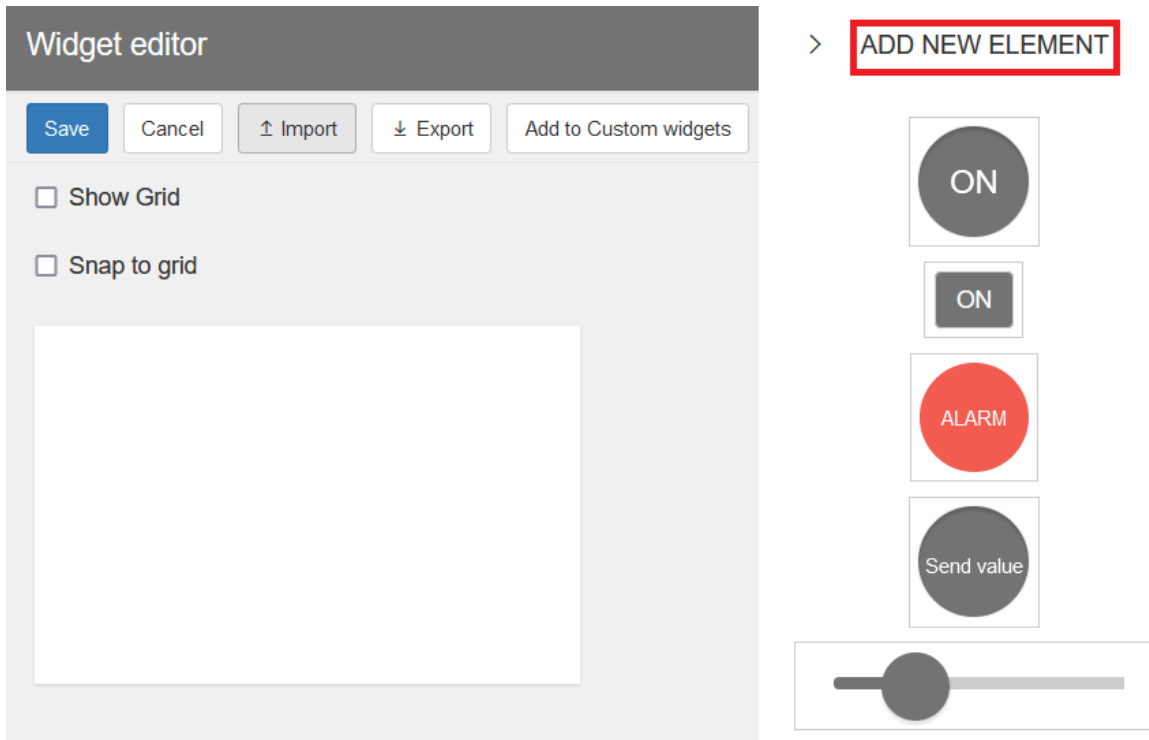
Height
2

☐ Rounded corners

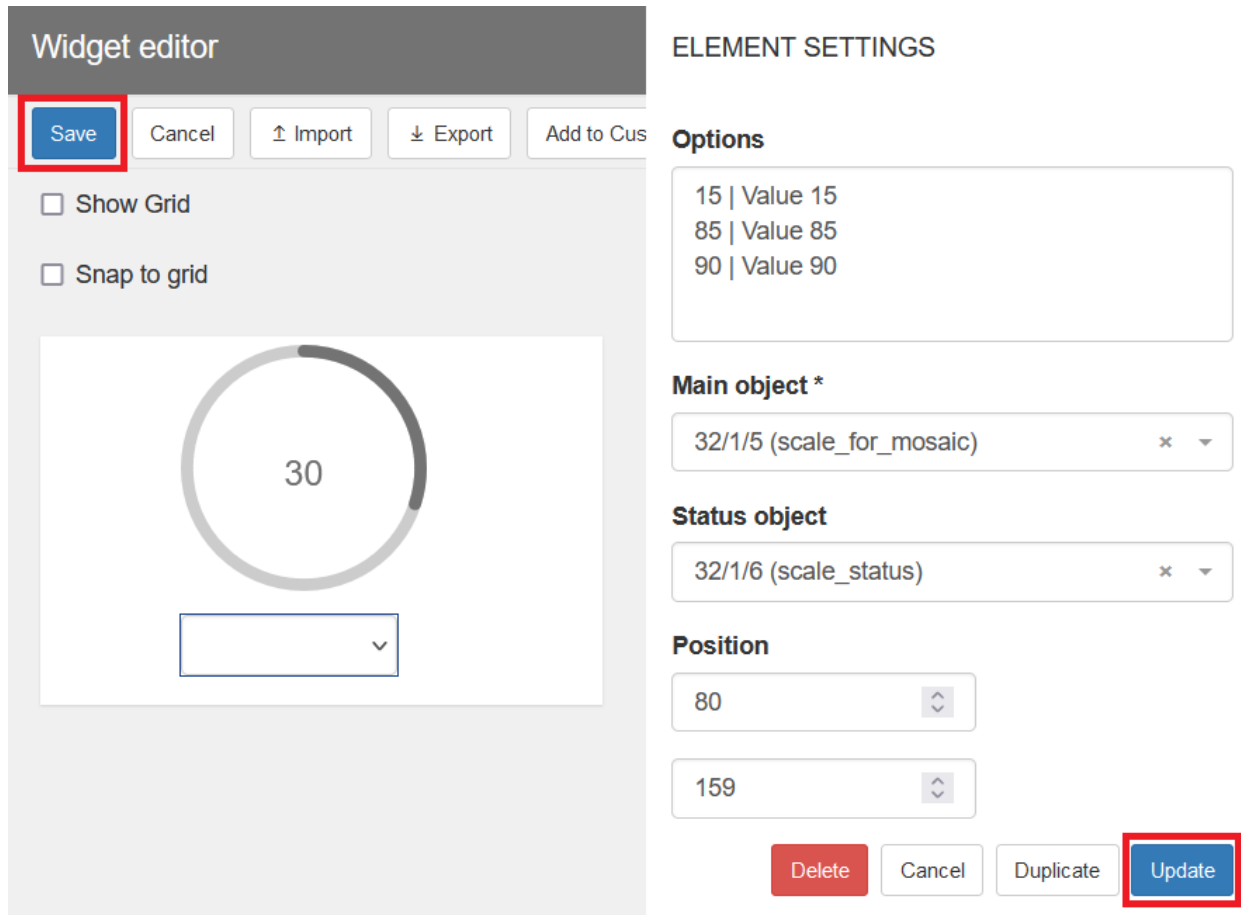
☐ Hide shadow

Background color
 Select color

Click on a “ADD NEW ELEMENT” and select the elements which you want to add.

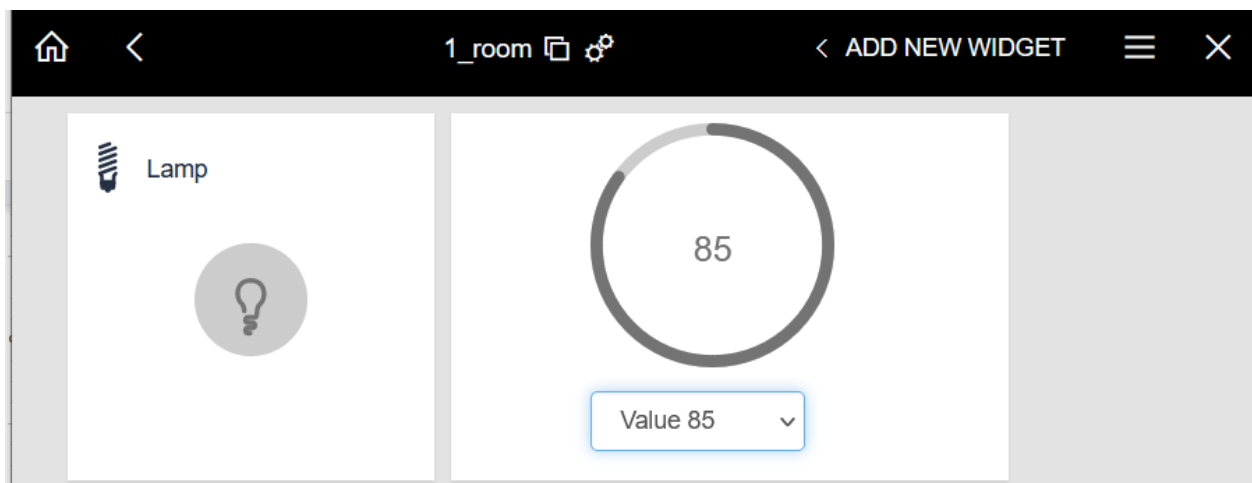


Set the position of elements and choose KNX objects for them.



After selecting KNX objects and position, click on the “Update” button, then click on the “Save” button.

You can switch to user mode and control KNX objects using Custom Widget.



3. Mosaic and Cloud

You can control your Mosaic visualization remotely through the LM Cloud. For this purpose you need to download a “LM Cloud” application and register a new account.



Visit <https://remote.logicmachine.net> to create new LogicMachine Cloud account

A screenshot of the LogicMachine Cloud login page. The page has a white background with a black border. At the top, the text "LogicMachine Cloud" is written in red. Below it, the text "Login using an external account" is displayed. There are three buttons for external login: "Google" (with the Google logo), "Facebook" (with the Facebook logo), and "Microsoft" (with the Microsoft logo). Below these buttons, there are input fields for "E-mail" and "Password". A checkbox labeled "Remember me for 90 days" is located below the password field. At the bottom left, there are links for "Register" and "Forgot password?". At the bottom right, there is a blue "Login" button.

You can use your google account to create LogicMachine Cloud account

A screenshot of the LogicMachine Cloud confirmation form. The page has a white background with a black border. At the top, the text "LogicMachine Cloud" is written in red. Below it, there is a checkbox labeled "I have read and approved" followed by a link to "privacy policy / terms & conditions". At the bottom right, there is a blue "Confirm" button.

Create a new network, enter the name of your network and click on “Create”.

LogicMachine Cloud

Existing networks

Create new network

my_example_network

Create

☐ Enable Mosaic for multiple networks

Change password

Current password

New password

Repeat new password

Password must contain at least one uppercase letter, lowercase letter and a digit. It must contain at least 8 characters

Logout [redacted]@gmail.com

Change password

Paste connection string into LM Cloud application.

LogicMachine Cloud

✔ Paste this connection string into LM Cloud application

9yayl6ljQ4NTA3Njc3ODIlLCJwYXNzd29yZCI6IndXaHEyUkZBWTREdSJ9

✔

Existing networks

ID: 4850767782 offline

my_example_network

Actions ▾

Go back to the “LM Cloud” application.



LogicMachine Cloud

View logs

✕

Status: connection OK

Sync configuration (Wed Apr 06 2022 15:39)

☒ Cloud connection enabled

Connection string

bmtvdnNAZ21haWwuY29tliwibmV0d29yayl6ljQ4NTA3Njc3ODIiLCJwYXNzd29yZCI6IndXaHEyUkZBWTREdSJ9

Visit remote.logicmachine.net to register a cloud account

LM ID: lm-001bc500460b-20306865:4850767782

Save changes

Paste connection string

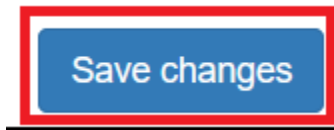
Connection string

bmtvdnNAZ21haWwuY29tliwibmV0d29yayl6ljQ4NTA3Njc3ODIiLCJwYXNzd29yZCI6IndXaHEyUkZBWTREdSJ9

enable cloud connection

☒ Cloud connection enabled

save changes



synchronize configuration



Now you can remotely control your Mosaic visualization, you can use

<https://remote.logicmachine.net>

Or *LogicMachine* app (Android or iOS) could be downloaded to your smartphone or tablet



≡

Home

Cloud

Search

⚙️

🕒

SETTINGS

Home Remote

Cloud host

remote.logicmachine.net

Email

██████████@gmail.com

Password

Register Save

≡

Home

Cloud

Search

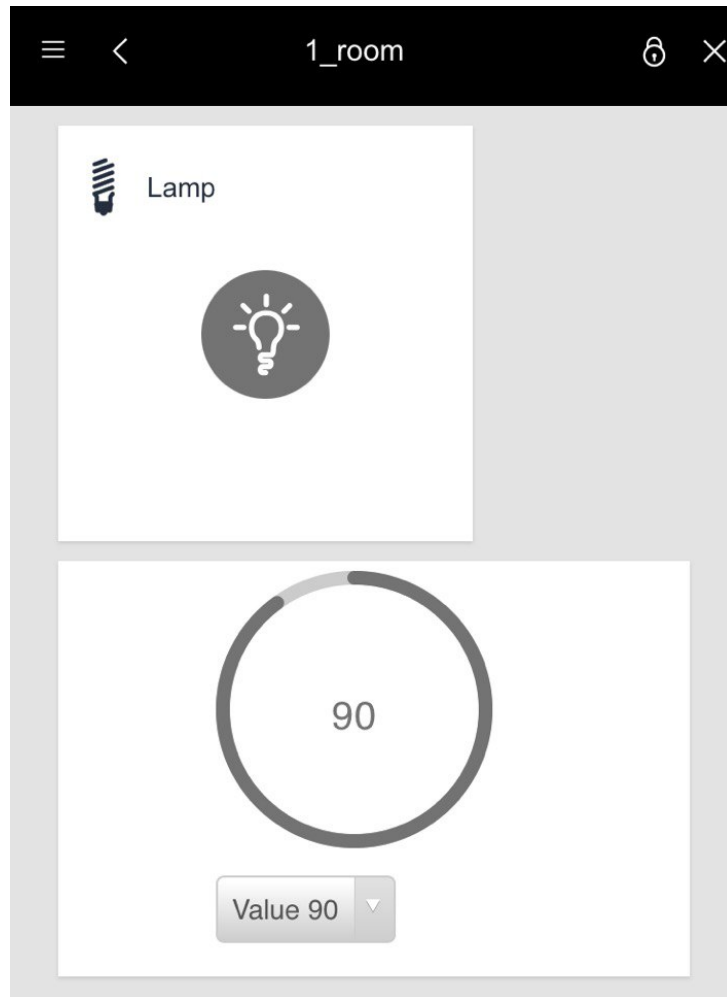
⚙️

🕒

REMOTE

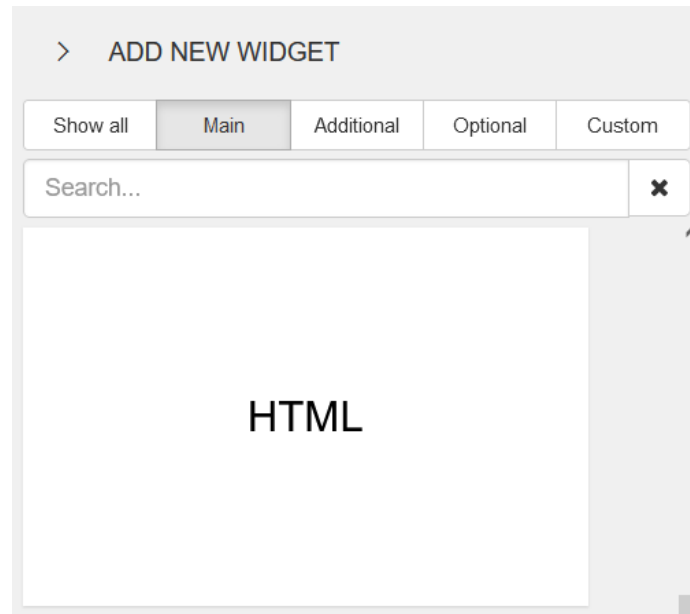
 Logic Machine Cloud

👤



4. Other widgets

4.1. HTML widget



Write a html code, you can add links to other webpages. Here is some example:

```
<html>
```

```
<body>
```

```
<br><br><br>
```

```
<div align="center"><font size="+2">
```

```
    Some example text.
```

```
</font></div>
```

```
<br><br><br>
```

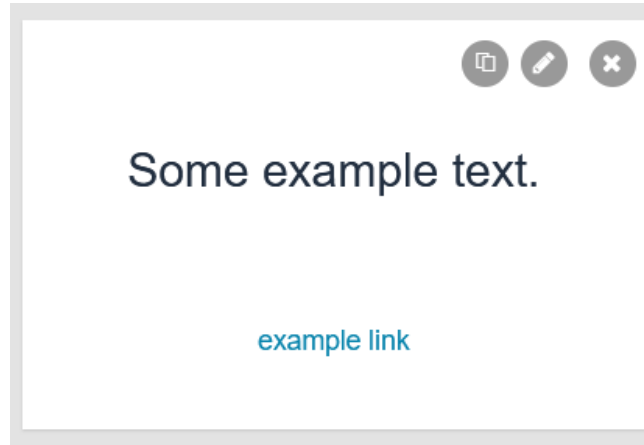
```
<div align="center">
```

```
    <a href="https://www.google.com/">example link</a>
```

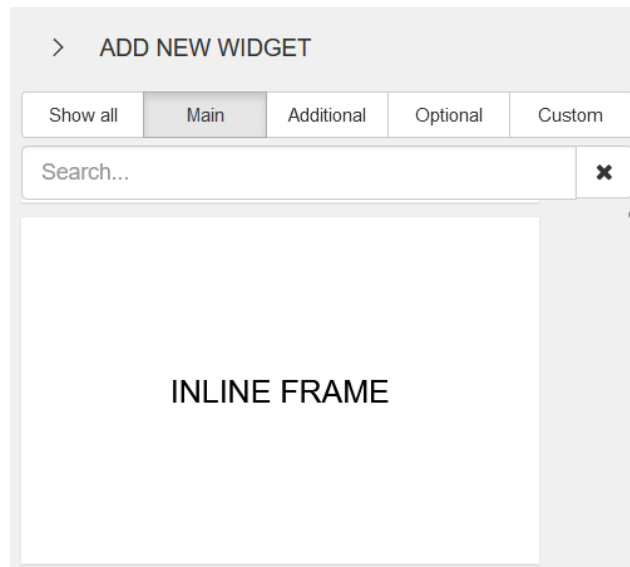
```
</div>
```

```
</body>
```

</html>



4.2. Inline frame widget



Inline frame ✕

General

Appearance

URL

Widget size

Width

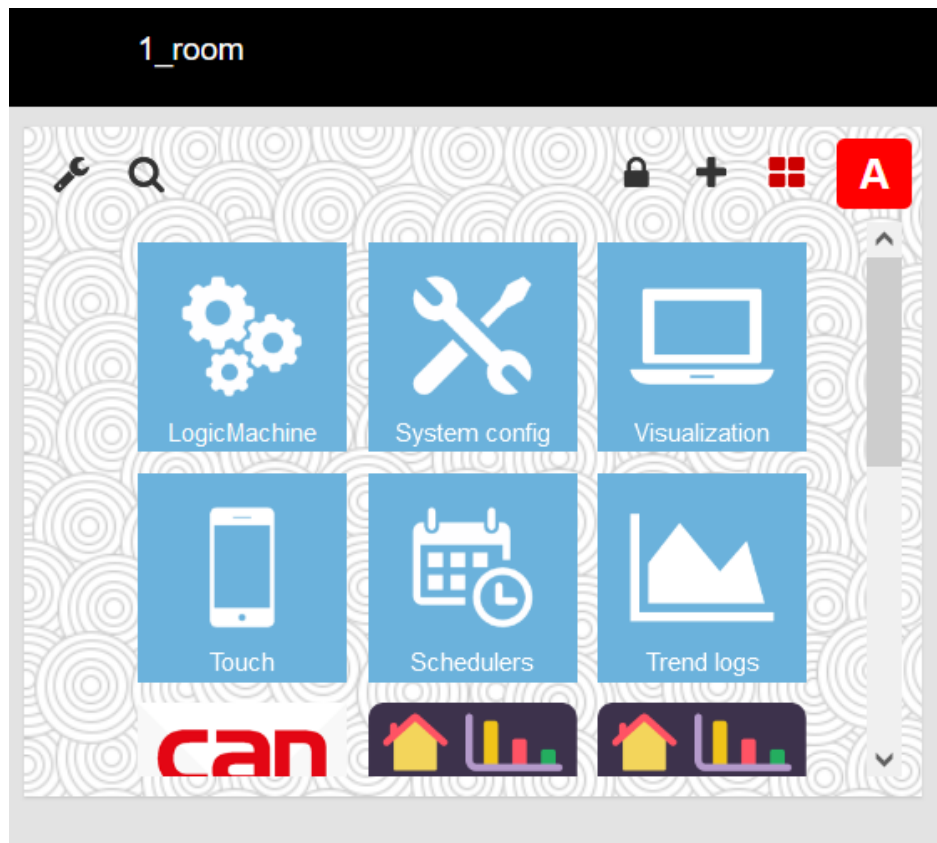
Height

⬆ Import

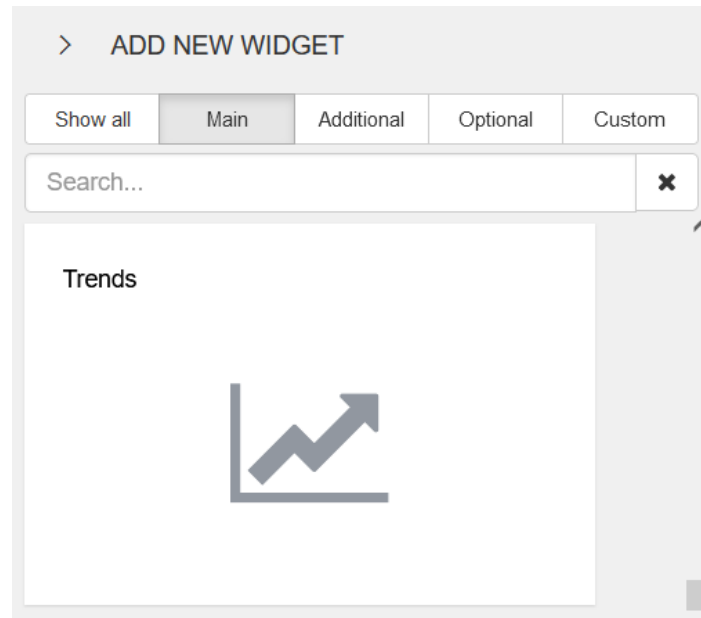
⬇ Export

Cancel

Save



4.3. Trends widget



Select trend log and time period

