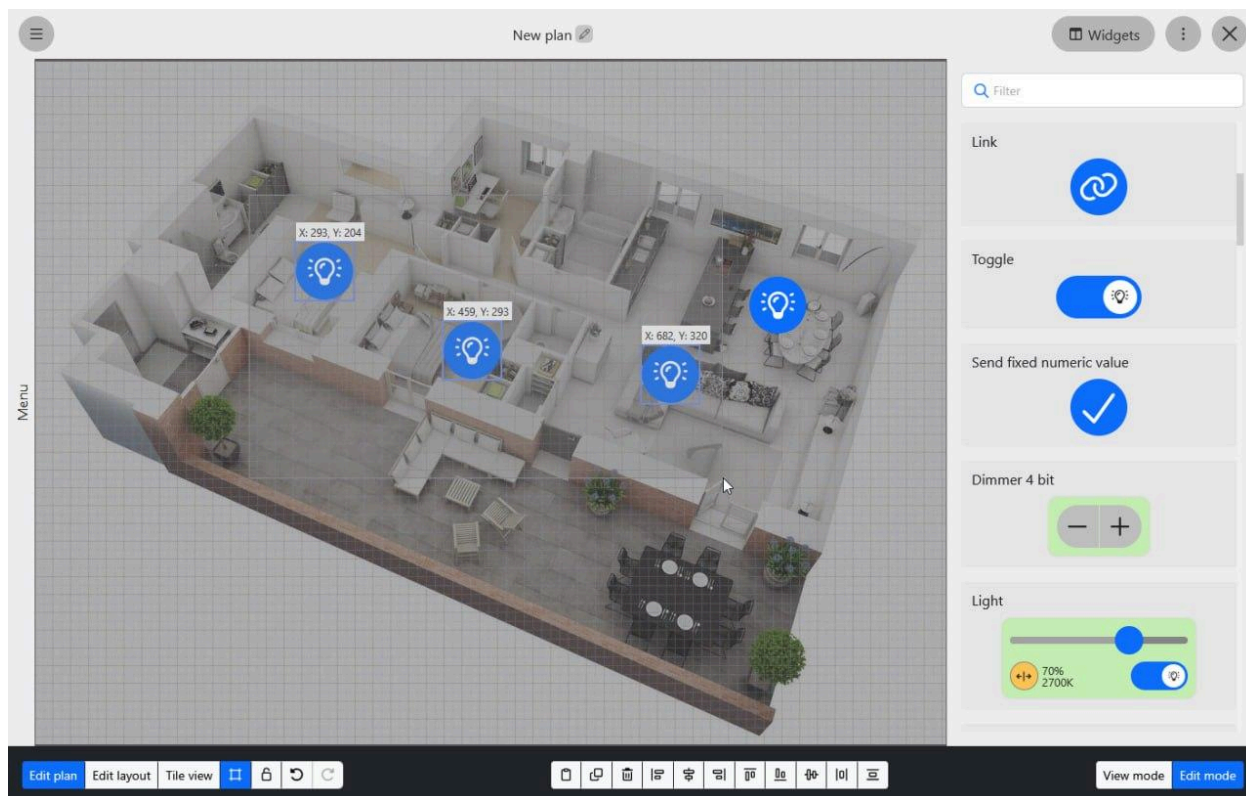


## Visu manual



November, 2025

Applicable Visu version: 2025.11

Applicable LogicMachine firmware version: 2025.11 or newer

Technical support:  
[forum.logicmachine.net](https://forum.logicmachine.net)

## Copyright

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# 1. Introduction

Visu is the new visualization engine for LogicMachine, developed with a focus on flexibility and customization. It can be tailored to a wide range of applications, effectively replacing the previous Visualization, Mosaic and Touch applications.

## 2. Modes of Visu



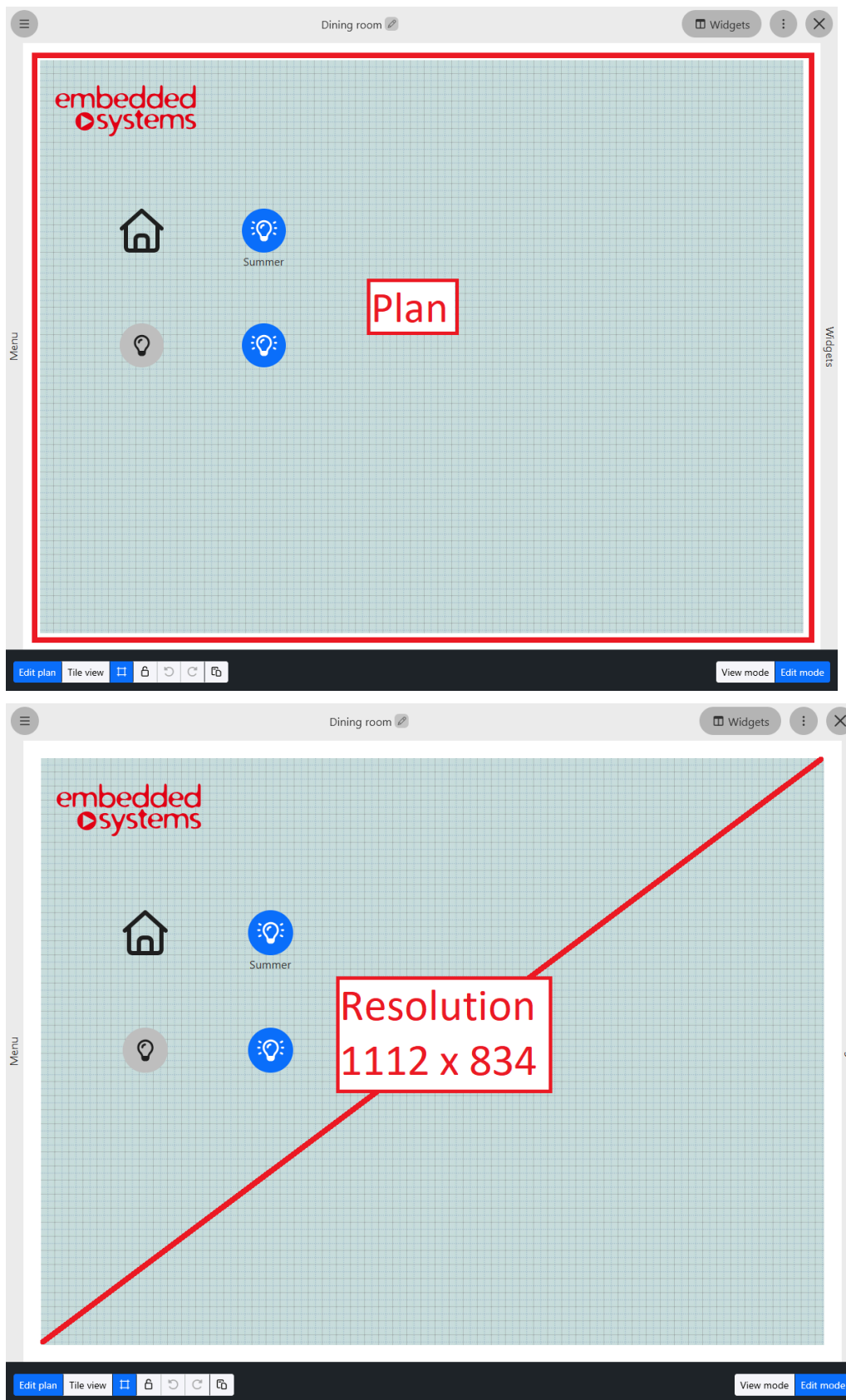
Admin view where the project is created.

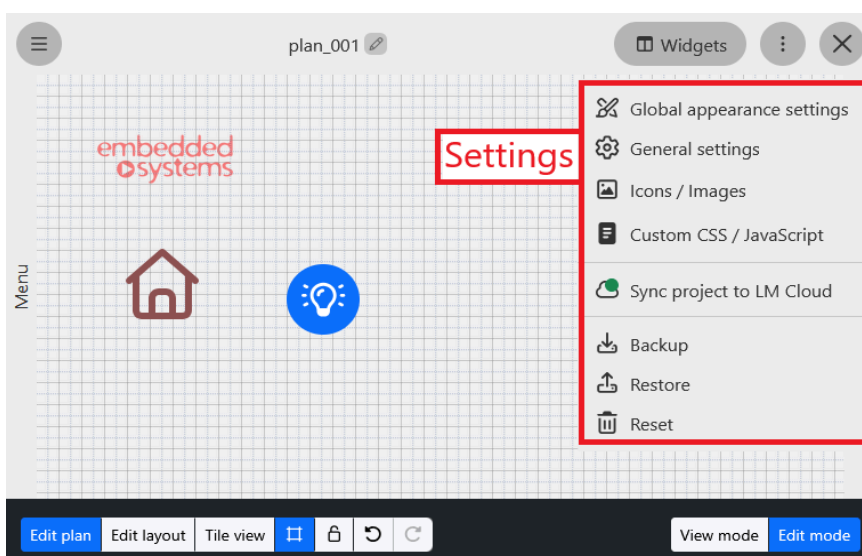
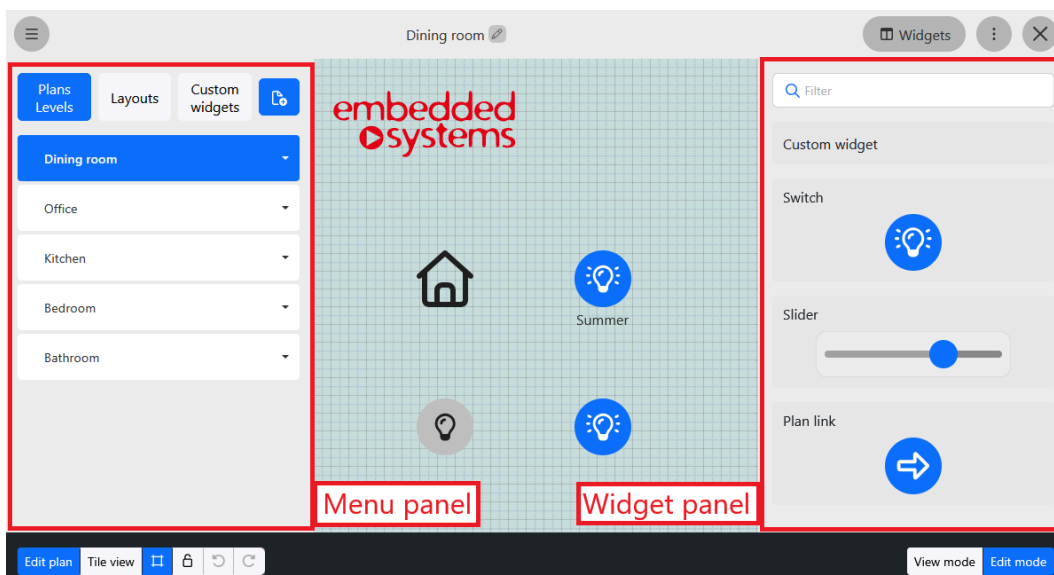


End user view to interact with the visualization.

End users should not be given the access rights to Admin view.

### 3. Admin view

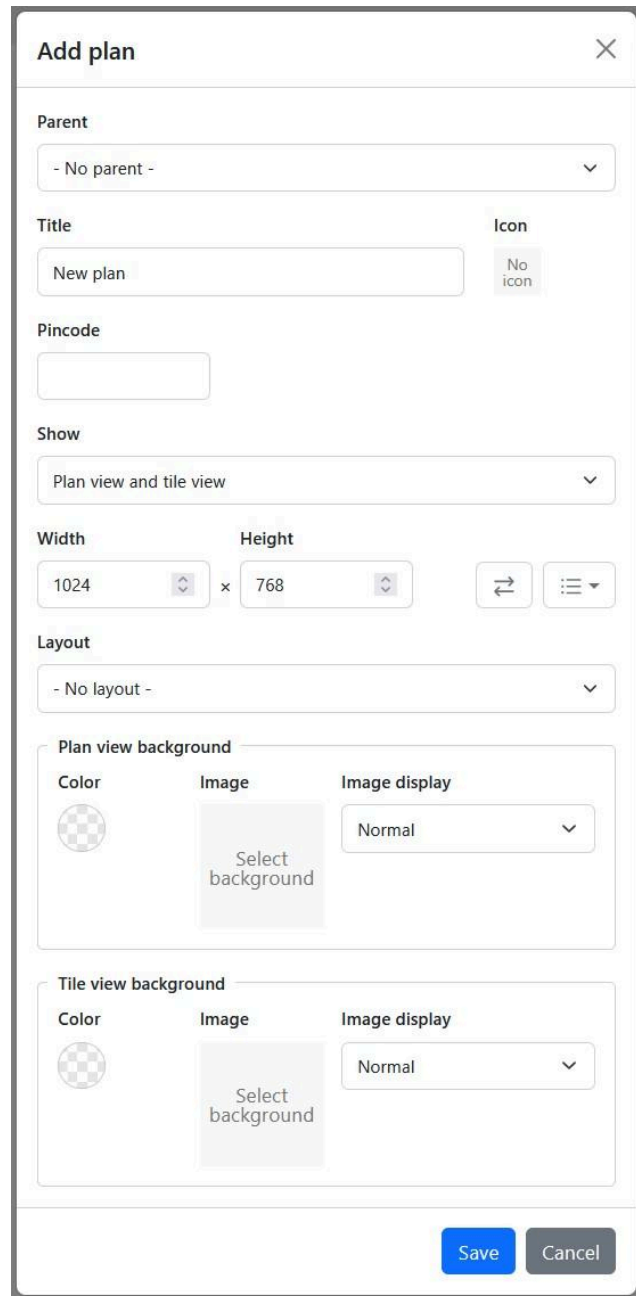
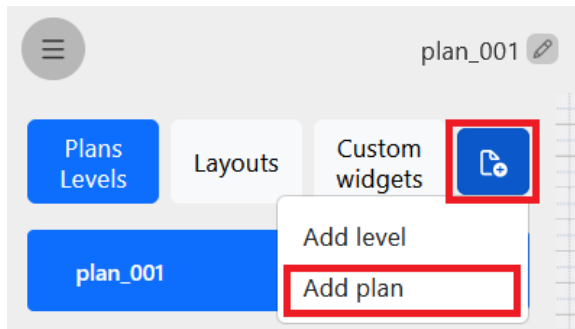




## 4. Main menu

### 4.1. Plans / Levels

#### 4.1.1. Plans

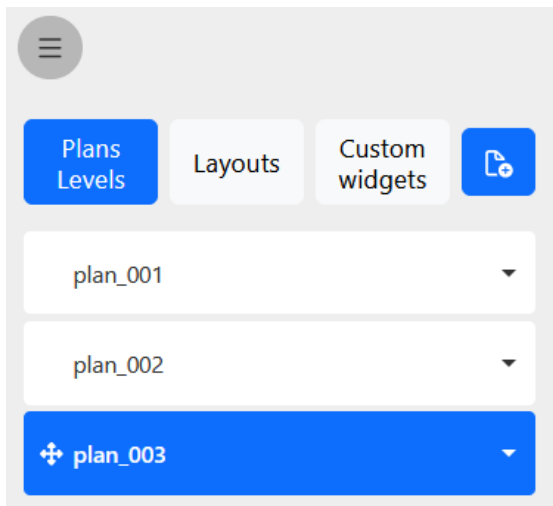


The 'Add plan' dialog box is shown. It has a title bar with 'Add plan' and a close button. The form contains the following fields and options:

- Parent:** A dropdown menu with the option '- No parent -'.
- Title:** A text input field with the placeholder 'New plan'.
- Icon:** A button labeled 'No icon'.
- Pincode:** A text input field.
- Show:** A dropdown menu with the option 'Plan view and tile view'.
- Width:** A text input field with the value '1024'.
- Height:** A text input field with the value '768'.
- Layout:** A dropdown menu with the option '- No layout -'.
- Plan view background:** A section with three options: 'Color' (a checkerboard icon), 'Image' (a button labeled 'Select background'), and 'Image display' (a dropdown menu with the option 'Normal').
- Tile view background:** A section with three options: 'Color' (a checkerboard icon), 'Image' (a button labeled 'Select background'), and 'Image display' (a dropdown menu with the option 'Normal').

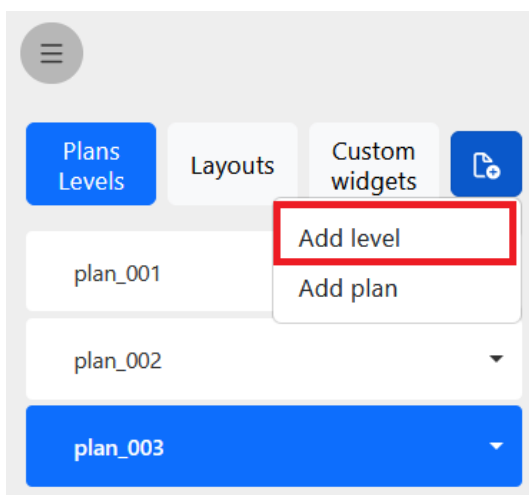
At the bottom right, there are two buttons: 'Save' and 'Cancel'.

- **Parent** - parent level or plan
- **Title** - title (name) of the plan
- **Pincode** - pincode, used to restrict access to the plan
- **Show** - plan view (PC, Tablet) / tile view (Smartphones)
- **Width / Height** - width and height of a plan, visualisation will be scaled accordingly to the screen size but the selected resolution ratio will be kept
- **Layout** - layout attached to the plan. Commonly used for elements which are constant across many plans like logos, custom menu, etc
- **Plan view background** - the color and image for plan view background
- **Tile view background** - the color and image for tile view background



Plans and levels can be dragged & dropped to change the order.

#### 4.1.2. Levels

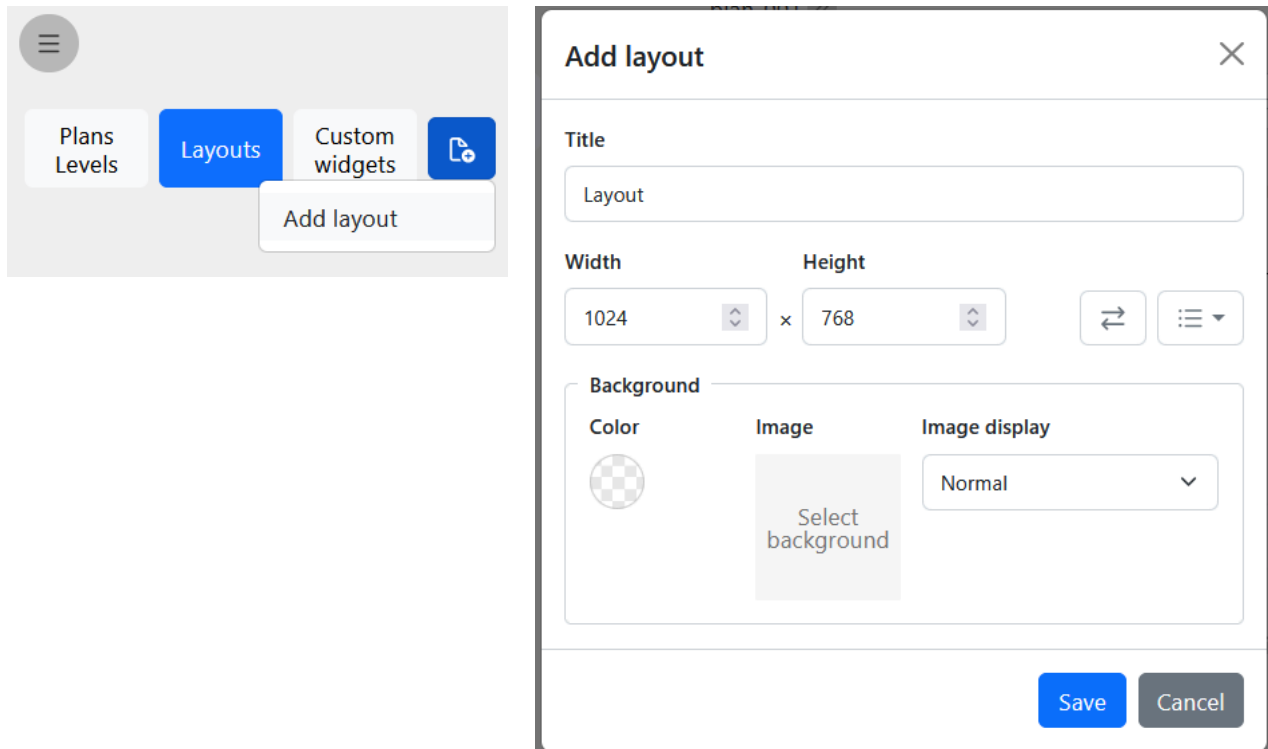


Levels act as separators for the main menu. When selecting a level the first child plan is displayed.



## 4.2. Layouts

Layout can be attached to the plan. Commonly used for elements which are constant across many plans like logos, custom menu, etc.

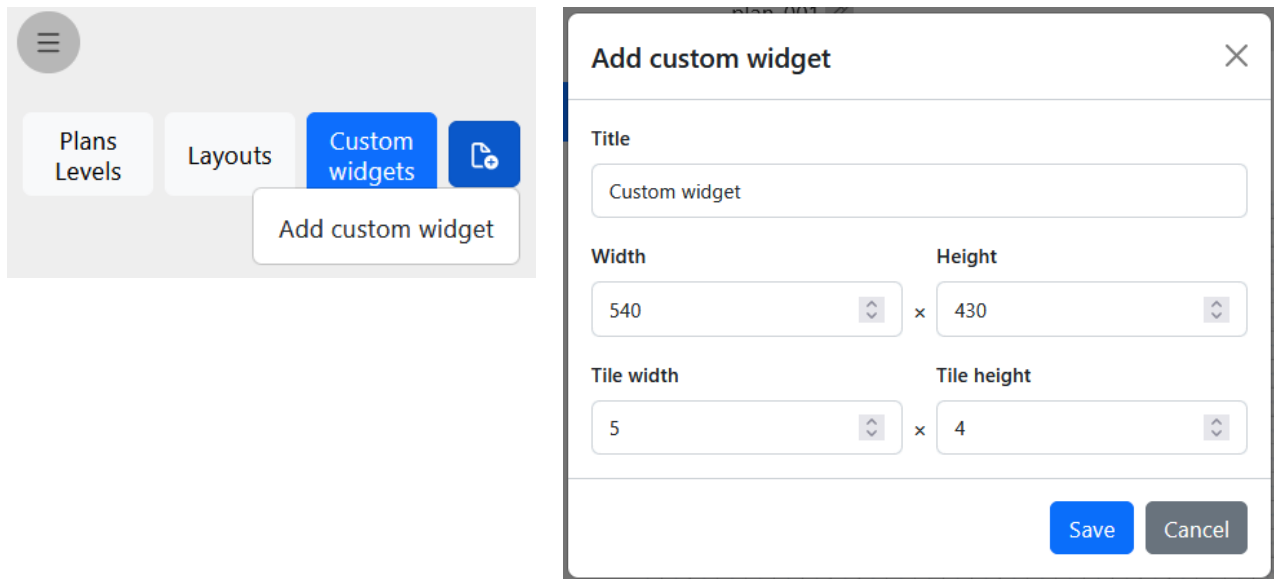


The image shows a software interface with a top navigation bar containing 'Plans Levels', 'Layouts' (highlighted in blue), and 'Custom widgets'. A blue button with a plus icon is next to 'Custom widgets'. Below the navigation bar, a white button labeled 'Add layout' is visible. To the right, a large 'Add layout' dialog box is open. The dialog has a title bar with a close button (X). Inside, there is a 'Title' field with the text 'Layout'. Below this are 'Width' and 'Height' fields with values '1024' and '768' respectively, separated by an 'x' symbol. To the right of these fields are two icons: a double-headed arrow and a list icon. Below the dimensions is a 'Background' section with three options: 'Color' (with a checkerboard icon), 'Image' (with a 'Select background' button), and 'Image display' (with a dropdown menu showing 'Normal'). At the bottom right of the dialog are 'Save' and 'Cancel' buttons.

- **Title** - title (name) of the layout
- **Width and Height** - width, height of the layout. Generally should be the same as the attached plan's width and height.
- **Background** - background of the layout, color and image can be selected

## 4.3. Custom widgets

A custom widget is typically a combination of several simpler widgets.



The screenshot shows a user interface with three buttons: 'Plans Levels', 'Layouts', and 'Custom widgets'. The 'Custom widgets' button is highlighted in blue and has a dropdown menu open showing 'Add custom widget'. To the right, a modal dialog titled 'Add custom widget' is displayed. It contains the following fields:

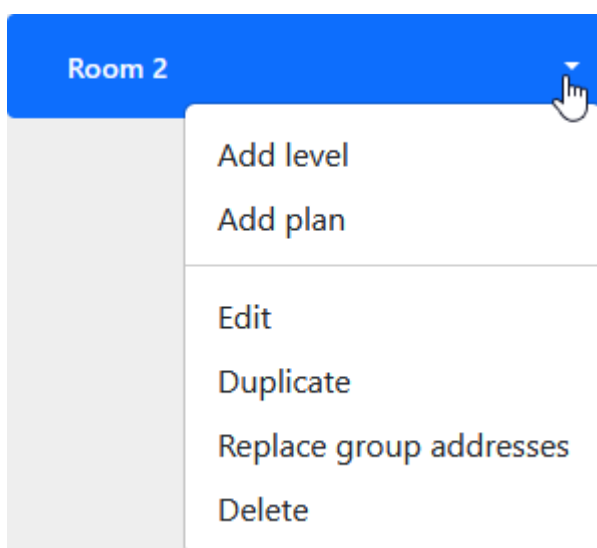
- Title:** A text input field containing 'Custom widget'.
- Width:** A numeric input field containing '540'.
- Height:** A numeric input field containing '430'.
- Tile width:** A numeric input field containing '5'.
- Tile height:** A numeric input field containing '4'.

At the bottom right of the dialog are 'Save' and 'Cancel' buttons.

- **Title** - title (name) of the custom widget
- **Width** - width in pixels
- **Height** - height in pixels
- **Tile width** - width in Tile view units
- **Tile height** - height in Tile view units

Note: if Tile view is used it is strongly recommended to use Tile width and Tile height. If widget width and height has a custom size then tile width and height will be automatically adjusted to the closest upper size.

## 4.4 Replace group addresses for plans, layouts and custom widgets



Replace group addresses - Room 2

Main group address (0..63)

Middle group address (0..7)

Group address offset (-255..255)

/

8

☒ Switch

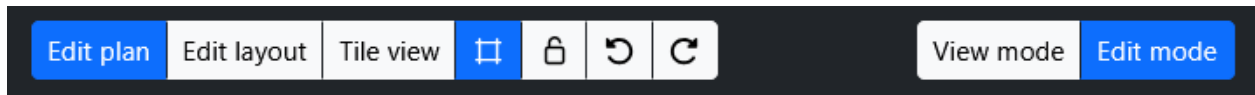
Control: Bedroom light switch (1/1/3) → Island switch (1/1/11)

Save






Cancel

The replace group addresses option from the menu selection is not the same as the Custom widget option (see chapter 7.2.3) It allows real shifting Plans/Layouts/Widgets objects by a constant change to all selected objects. The shift functionality is exactly the same as in the ETS Paste special.

## 5. Bottom toolbar



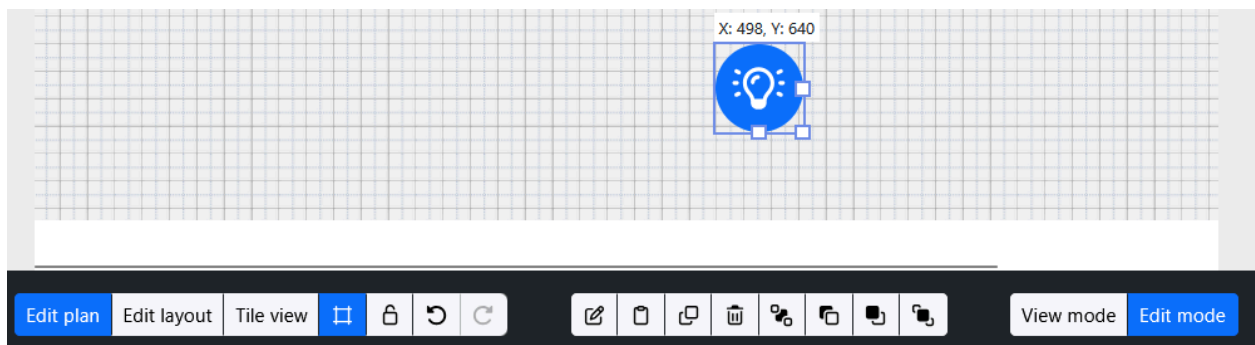
- **Edit plan / Edit layout / Tile view** - toggles between editing the plan, layout and tile view. This field can change depending on the plan Show parameter or whether a layout is used.

	Show / hide plan grid
	Snap widgets to plan grid when moving
	Undo
	Redo
	Paste









- **View mode / Edit mode** - toggles between editing the plan and viewing the plan.

Note: **Undo/Redo** works only on the current plan. Navigating to a different plan deletes the undo history.

## 5.1. Widget control toolbar

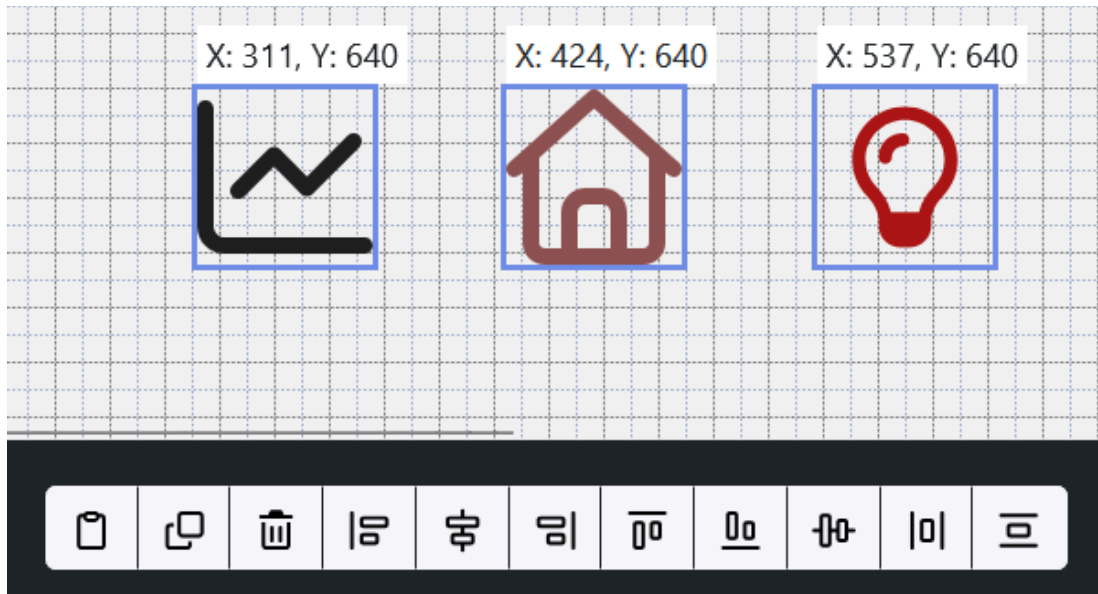


### Widget controls:

-  Edit widget configuration
-  Copy
-  Duplicate with X/Y
-  Delete
-  Lower to bottom
-  Lower
-  Raise
-  Raise to top

Lower/Raise buttons change widget stacking order - the sequence in which overlapping widgets are drawn on the screen.

Additional options are shown when several widgets are selected.



Align left



Align horizontal center



Align right



Align top



Align vertical center



Align bottom

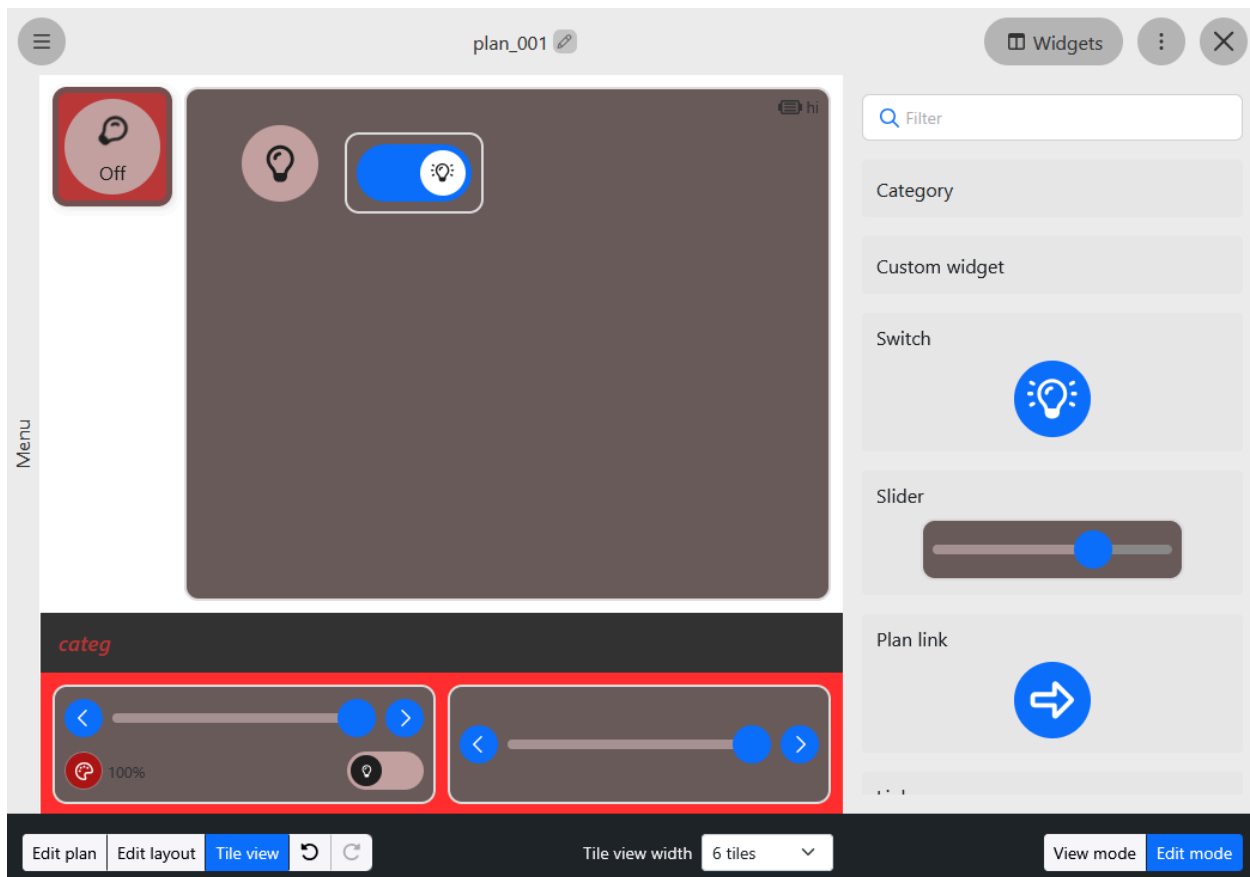


Distribute horizontally (when 3 or more widgets are selected)



Distribute vertically (when 3 or more widgets are selected)

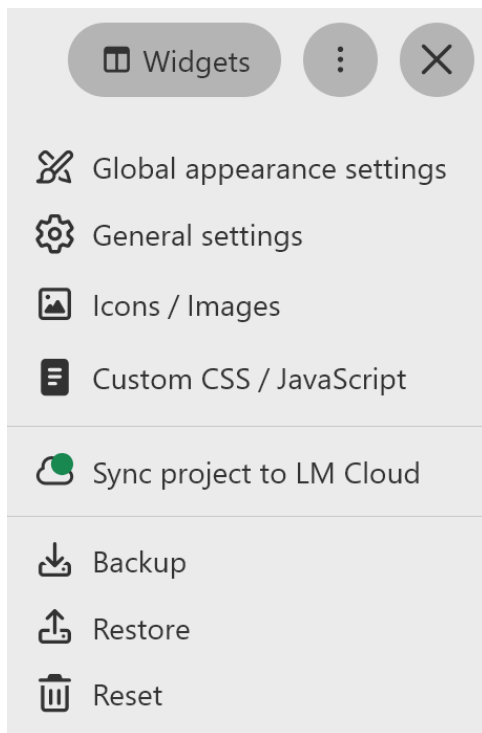
## 5.2. Tile view



Widgets can be rearranged by dragging and dropping.

- **Tile view width** - current view width in tiles (Automatic, 1, 2, 3, ... 12 tiles)  
This option is intended to show how the Tile view will look on different screen sizes

## 6. Settings



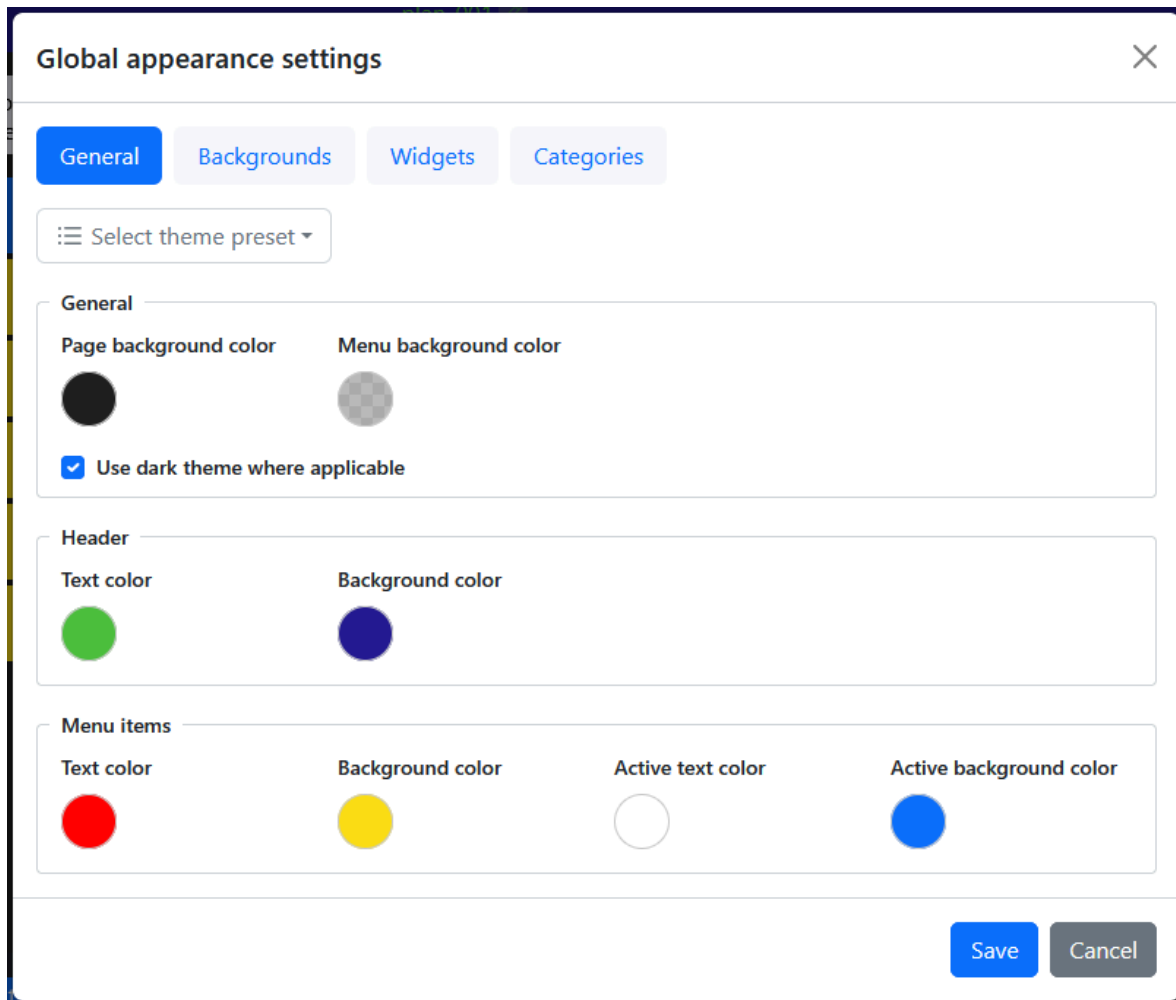


## 6.1. Global appearance settings

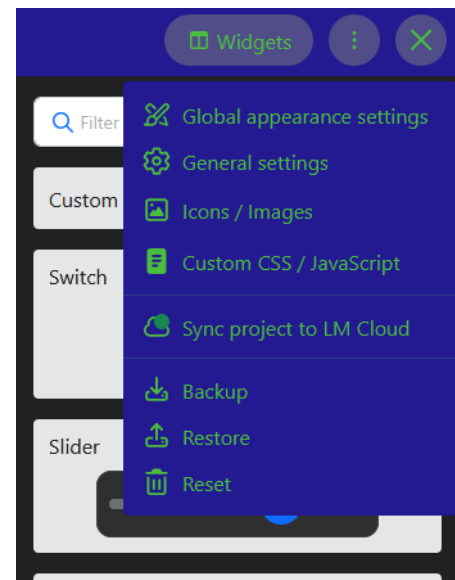
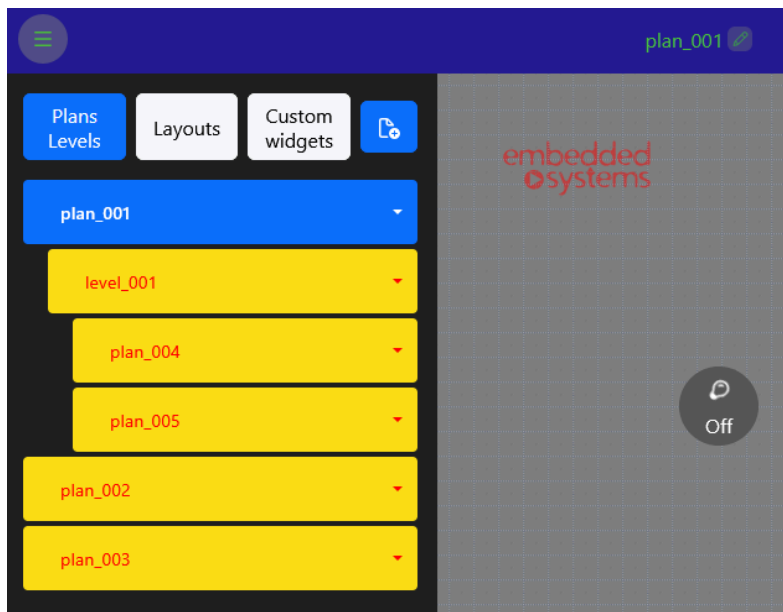
Global appearance allows setting default parameters for most visualization elements. These settings are overridden by local appearance settings in plans, custom widgets, widgets etc.

### 6.1.1. General

- **Select theme preset** - Light and dark pre-build presets are available.



The image shows a 'Global appearance settings' dialog box with a close button (X) in the top right corner. It features four tabs: 'General' (selected), 'Backgrounds', 'Widgets', and 'Categories'. Below the tabs is a dropdown menu labeled 'Select theme preset'. The 'General' section contains three sub-sections: 'General' with 'Page background color' (black circle) and 'Menu background color' (gray checkerboard circle), and a checked checkbox 'Use dark theme where applicable'; 'Header' with 'Text color' (green circle) and 'Background color' (dark blue circle); and 'Menu items' with 'Text color' (red circle), 'Background color' (yellow circle), 'Active text color' (white circle), and 'Active background color' (blue circle). At the bottom right are 'Save' and 'Cancel' buttons.



### General:

- **Page background color** - in this example it is black
- **Menu background color** - in this example it is grey
- **Use dark theme** - applies to pop-up windows and other common controls like inputs and select elements

### Header:

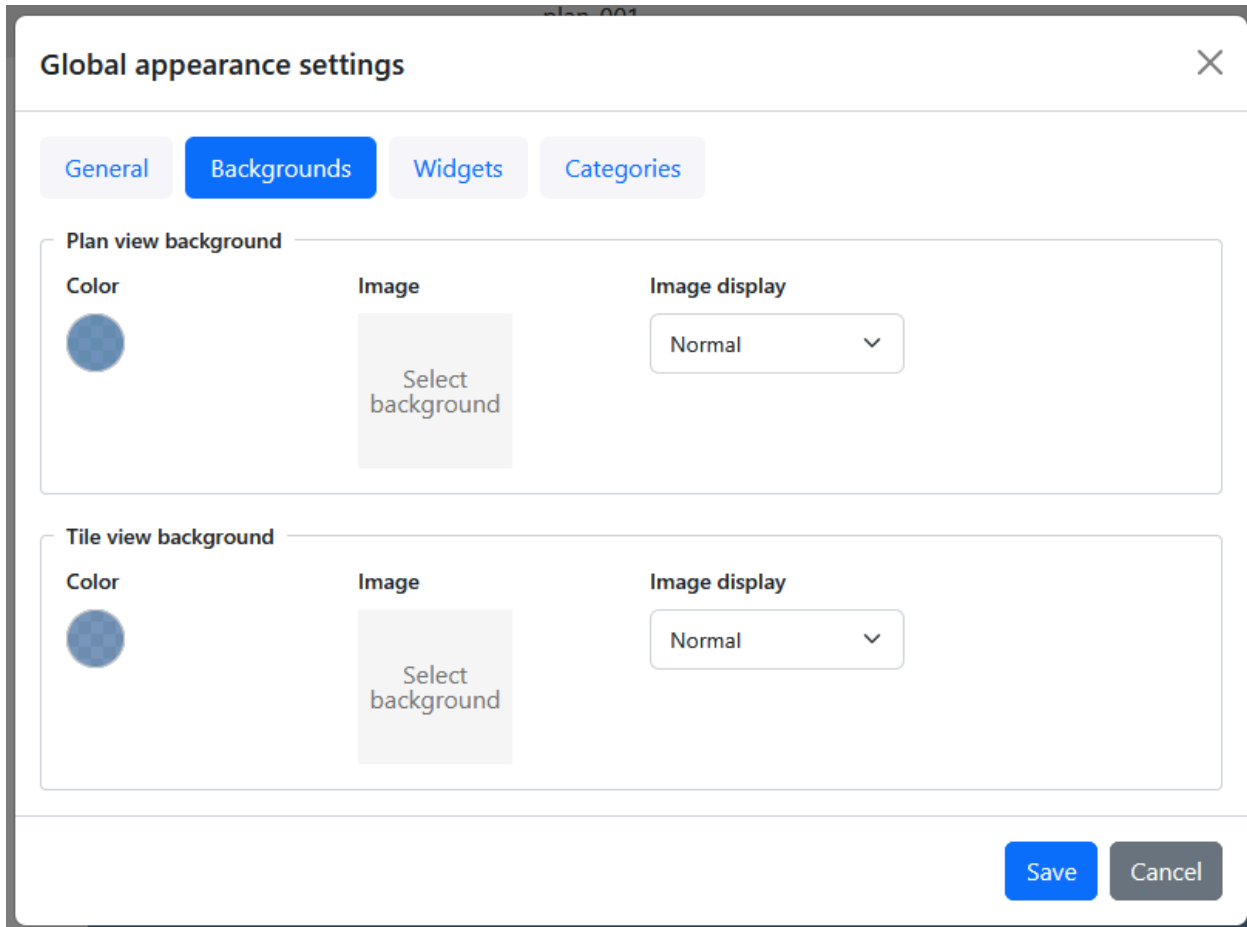
- **Text color** - in this example it is green
- **Background color** - in this example it is dark blue

### Menu items:

- **Text color** - in this example it is red
- **Background color** - in this example yellow
- **Active text color** - selected option color - in this example it is white
- **Active background color** - selected option background color - in this example it is blue

## 6.1.2. Backgrounds

Global Plan and Tile view background settings.



The image shows a 'Global appearance settings' dialog box with a close button (X) in the top right corner. It features four tabs: 'General', 'Backgrounds' (which is selected and highlighted in blue), 'Widgets', and 'Categories'. The 'Backgrounds' section is divided into two main areas: 'Plan view background' and 'Tile view background'. Each area contains three settings: 'Color' (represented by a blue circular swatch), 'Image' (represented by a grey square with the text 'Select background'), and 'Image display' (a dropdown menu currently set to 'Normal'). At the bottom right of the dialog are 'Save' and 'Cancel' buttons.

**Global appearance settings**

General Backgrounds Widgets Categories

**Plan view background**

Color Image Image display

Select background

Normal

**Tile view background**

Color Image Image display

Select background

Normal

Save Cancel

### 6.1.3. Widgets

Global widget appearance settings.

The screenshot shows a 'Global appearance settings' dialog box with a close button (X) in the top right corner. The 'Widgets' tab is selected, showing various configuration options for widget appearance. The settings are organized into sections: Colors, General, Title, and Widget background. The 'Colors' section includes Text color (grey), Active color (blue), and Inactive color (dark grey). The 'General' section includes Border width (3 px), Border color (red), Rounded corners (checked), and Widget shadow (unchecked). The 'Title' section includes Title text alignment (Left), Title text color (green), Font size (18), and checkboxes for Bold, Italic, and Underline. The 'Widget background' section includes Color (yellow), Image (a placeholder with 'Select background' text), and Image display (Normal). At the bottom, there is a checkbox for 'Apply background/border to Plan view widgets (excluding widgets in Compact mode)' which is checked. 'Save' and 'Cancel' buttons are at the bottom right.

**Global appearance settings**

General Backgrounds **Widgets** Categories

**Colors**

Text color Active color Inactive color

**General**

Border width Border color

3 px

☒ Rounded corners ☐ Widget shadow

**Title**

Title text alignment Title text color Font size

Left

18

☐ Bold ☐ Italic ☐ Underline

**Widget background**

Color Image Image display

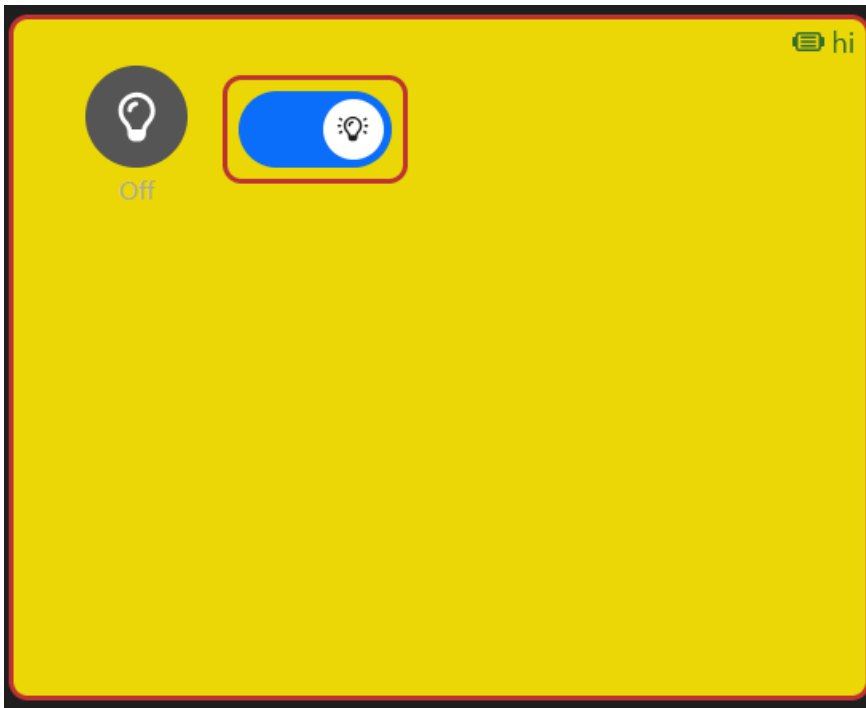
☐ ☐ ☐

Normal

☒ Apply background/border to Plan view widgets (excluding widgets in Compact mode)

Save Cancel

- **Apply background/border to Plan view widgets (excluding widgets in Compact mode)**  
By default any background and border settings are not applied to plan view widgets



#### Colors:

- **Text color** - status text in this example light grey (Off)
- **Active color** - active color of the icon in this example blue
- **Inactive color** - inactive color of the icon in this example dark grey

#### General:

- **Border width** - in pixels
- **Border color** - in this example it is red
- **Rounded corners** - add rounded corners to the widget element
- **Widget shadow** - display a shadow under the widget element

#### Title (only applies to Tile view):

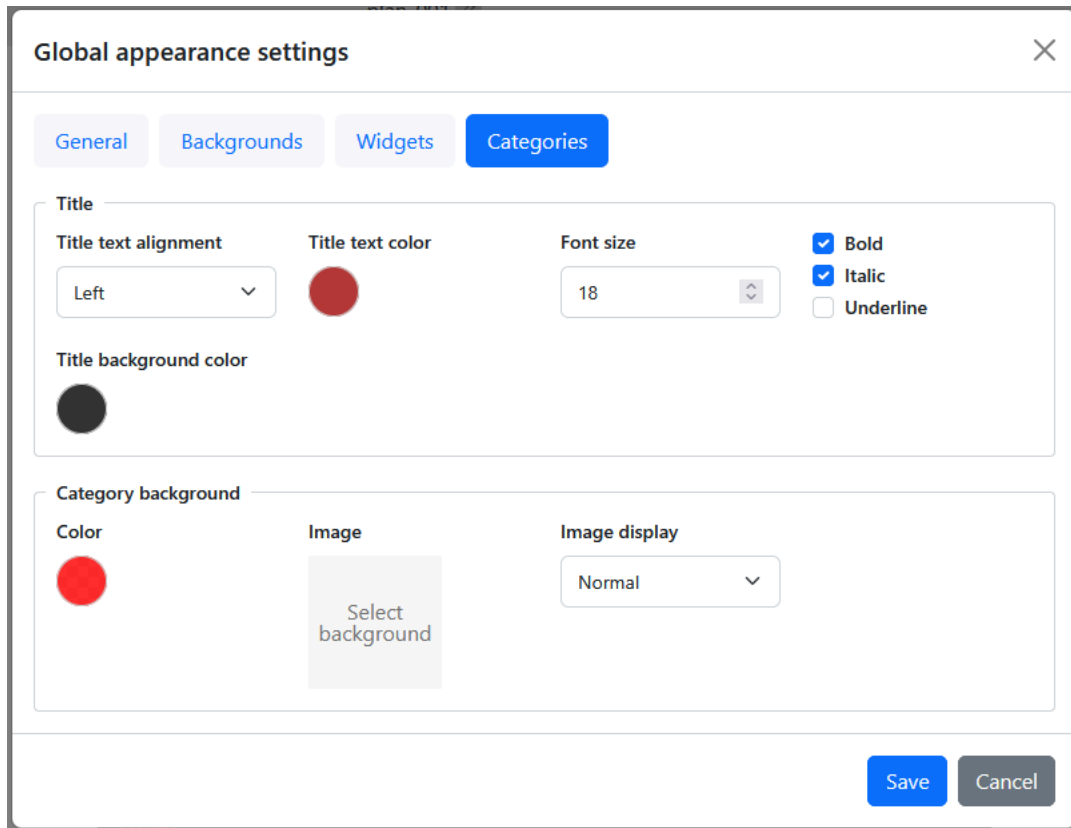
- **Title text color** - in this example green

#### Widget background:

- **Color** - in this example yellow

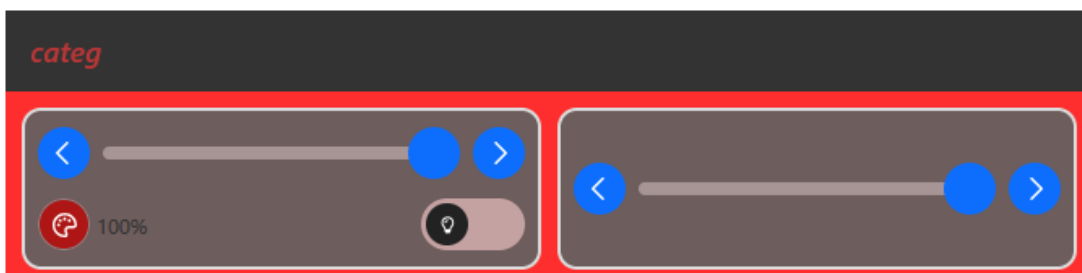
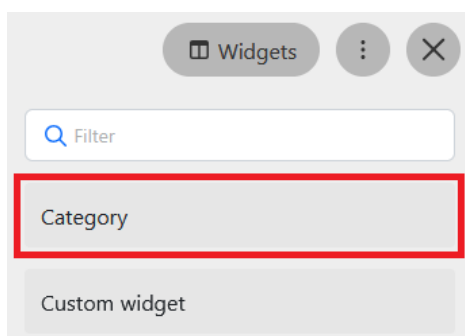
## 6.1.4. Categories

Global settings for category widget. Categories are containers for several other widgets used in Tile view. After creation, widgets must be dragged into the category widget.



The image shows a 'Global appearance settings' dialog box with a close button (X) in the top right corner. It has four tabs: 'General', 'Backgrounds', 'Widgets', and 'Categories', with 'Categories' being the active tab. The 'Title' section contains settings for 'Title text alignment' (set to 'Left'), 'Title text color' (a red color swatch), 'Font size' (set to '18'), and checkboxes for 'Bold' (checked), 'Italic' (checked), and 'Underline' (unchecked). Below this is the 'Title background color' with a black color swatch. The 'Category background' section includes 'Color' (a red color swatch), 'Image' (a button labeled 'Select background'), and 'Image display' (a dropdown menu set to 'Normal'). At the bottom right are 'Save' and 'Cancel' buttons.

It essential to switch to Tile view and select widget - *Category*



## 6.2. General settings

General settings

×

View mode

Plan view and tile view

▼

Screen width threshold for automatic switching between Plan / Tile view

800

⌵

☐ Show only top-level menu items by default in User view

☐ Hide close button (in tile view and if header is enabled in plan view)

Screensaver / Screen timeout

☒ Enable

Timeout (seconds)

300

⌵

Dim level

90

⌵

☐ Go to first plan on timeout

Plan view

☐ Show header

Plan view menu display mode

Toggle

▼

Save

Cancel

- **View mode** - defines globally which visualisation mode will be available to the end user
- **Set screen width threshold for automatic switching between Plan / Tile view** - when both Plan and Tile view modes are enabled this parameter defines the screen width in pixels at which an automatic switching between views happens
- **Show only top-level menu items by default in User view** - when enabled only top main menu levels will be displayed and all sub-levels will be collapsed
- **Hide close button (in tile view and if header is enabled in plan view)** - hides the close button for User view. The close button by default is hidden on the Plan view as the header is not enabled by default

### **Screensaver / Screen timeout:**

- **Timeout (seconds)** - after no activity in the user view the screen saver will be shown based on the Dim level settings
- **Dim level** - dimming level from 0% to 100%
- **Go to first plan on timeout** - if enabled the first plan will be shown automatically when no user activity is detected

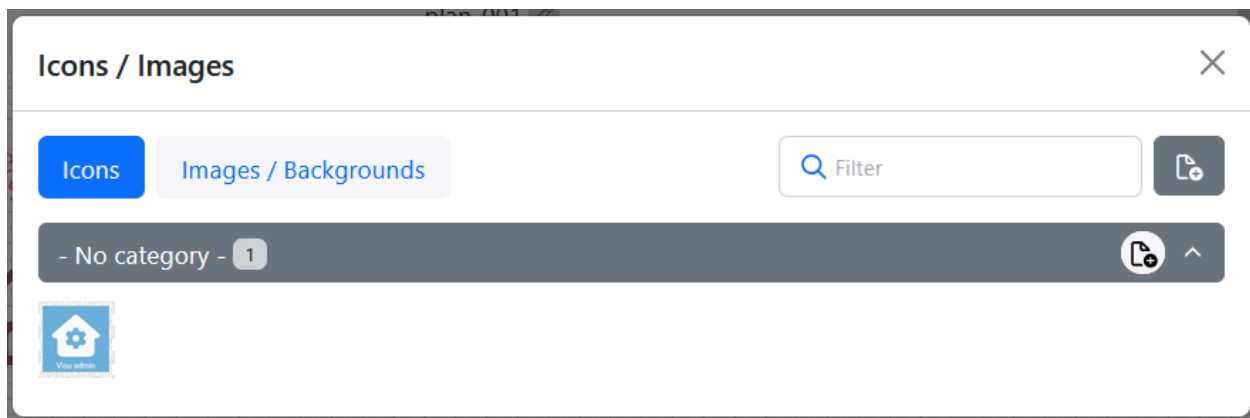
### **Plan view settings:**

- **Show header** - header on top of the screen will be displayed with plan name in the centre
- **Plan view menu display mode** - controls how the main menu is displayed in Plan view:
  - **Toggle** - automatically hidden after selecting the plan
  - **Hidden** - menu is not visible
  - **Always show** - menu is docked permanently



## 6.3. Icons / Images

Custom icons and Images can be uploaded. A zip file can be used to import several icons/images at once. Categories allow organizing icons/images into groups.

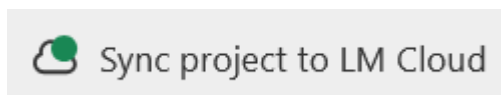


## 6.4. Custom CSS / JavaScript

Custom CSS and JavaScript allows further advanced customisation of visualisation. This option is only intended for advanced users which understand web development. Note that Custom JavaScript can only be used in user view but not in admin view.

Visu JavaScript reference: <https://kb.logicmachine.net/misc/visu/>

## 6.5. Sync project to LM Cloud



When using LM cloud all changes must be synchronized manually. After setting up the LM Cloud app the Sync project button should be used after any changes on the Visu.

## 6.6. Backup

Saves a backup of the current project as a zip file.

## 6.7. Restore

Restores a project backup from a zip file.

## 6.8. Reset

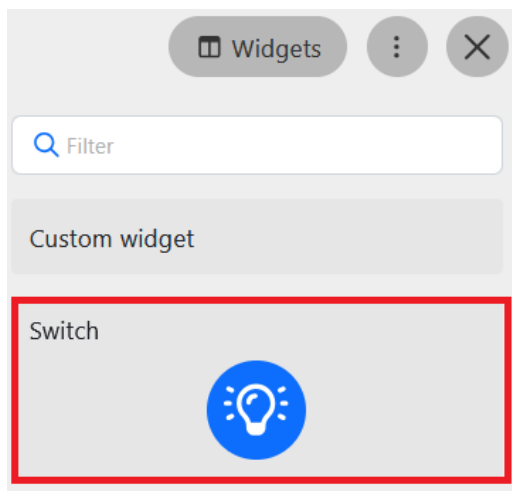
Resets the project, deletes all configuration and icons/images.

## 7. Widgets

Widgets can be displayed in 3 different modes:

- **Full mode** - this is the default mode for most widgets when the control is directly visible. The only difference is Custom widget which by default is displayed in Compact mode. To display a custom widget in full mode, compact mode must be disabled.
- **Compact mode** - this mode converts the widget into a single icon and/or value text which must be pressed to show the control element. The icon/text works only as status.
- **Pop-up mode** - Certain widgets like light, time, date, etc. have pre-designed pop-up views. This view cannot be modified. It can be only Light or Dark depending on the global theme.

### 7.1. Switch



### 7.1.1. Switch configuration (Configuration)

Widget configuration (Switch) [X]

Configuration Objects Appearance

Show: Both [v] Pincode: Pincode [v]

Compact mode [checked] [^]

Display mode: Icon [v] Shape: Circle [v]

OFF state

Icon: [lightbulb icon] Color: [checkered circle] Background: [checkered circle]

ON state

Icon: [glowing lightbulb icon] Color: [checkered circle] Background: [checkered circle]

Plan view [v]

Tile view [v]

General settings [v]

Save Cancel

- **Show** - Plan view, Tile view, Both - The option allows to define on which view the widget will be visible
- **Pincode** - If set then the user will be asked for PIN each time the widget value is changed. The value is sent only once the correct PIN is entered. 4 digits is the minimum for the PIN.

### 7.1.1.1. Compact mode (Switch)

Compact mode

Display mode

Icon and value

Shape

Rounded corners

Value location

Inside

Horizontal alignment

Center

Vertical alignment

Bottom

Font size

Font size

☐ Bold

☐ Italic

☐ Underline

OFF state

Text

Off

Color

Icon

Color

Background

ON state

Text

On

Color

Icon

Color

Background

- **Display mode** - Icon, Value, Icon and value. Different settings of Display mode will modify other parameters.
- **Shape** - No shape, Circle, Rounded corners, Square
- **Value location** - bottom, right, inside
- **Horizontal alignment** - left, center, right (alignment of the value)
- **Vertical alignment** - top, center, bottom, applicable when value location is “inside” or “right”

#### OFF/ON state:

- **Text** - Custom text for the value
- **Color** - Color of the text
- **Icon** - Custom icon selection
- **Color** - Custom color of the icon
- **Background** - Custom color of the shape background.



### 7.1.1.2. Plan view (Switch)

Plan view ^

Plan X	Plan Y	Stacking order
110	193	2
Width	Height	
64	64	

- **Plan X, Plan Y** - coordinates from top left corner
- **Stacking order** - the sequence in which overlapping widgets are drawn on the screen

#### 7.1.1.3. Tile view (Switch)

Tile view ^

Tile width	Tile height	Control element display
1	1	Square
Title	Title text alignment	Icon
Title	Default	No icon
Functions (tags)		
lighting ×		

- **Control element display** - Square, Fill available space
- **Title text alignment** - Default, Left, Center, Right

#### 7.1.1.4. General settings (Switch)

General settings ^

☐ Read-only

Switch mode

Toggle

- **Read-only** - disable control, only possible to see the status of widget
- **Switch mode:**
  - Toggle: Toggles the value between On (1) and Off (0).
  - Start (1) / Stop (0): Sends '1' on press, then immediately reverts to '0'.
  - Start (0) / Stop (1): Sends '0' on press, then immediately reverts to '1'.
  - Send Off (0): Sends only the '0' value on press.
  - Send On (1): Sends only the '1' value on press.

## 7.1.2. Switch configuration Objects

The screenshot shows a 'Widget configuration (Switch, ID: 14)' dialog box with three tabs: 'Configuration', 'Objects' (selected), and 'Appearance'. In the 'Objects' tab, there are two sections: 'Control \*' and 'Status'. The 'Control \*' section has a dropdown menu showing '0/1/4 M5DIAL - Circle bottom right' and a 'Reload object list' button. Below it is a checked checkbox for 'Write to bus'. The 'Status' section has a dropdown menu showing '- Select object -'. Both sections indicate a data type of '01. 1 bit boolean'. At the bottom right are 'Save' and 'Cancel' buttons.

Objects marked with \* are mandatory.  
Objects are filtered for correct datatypes.

- **Write to bus** - If selected value will be written to KNX TP bus, otherwise not. It will still be written to KNX IP.
- **Reload object list** - updates the internal object list if changes were made after Visu admin was opened.

### 7.1.3. Switch configuration Appearance

Widget configuration (Switch, ID: 14)

Configuration

Objects

Appearance

General

Border width

5 px

Border color

Rounded corners

Enabled

Widget shadow

Enabled

Applies to: Tile view

Background

Color

Image

Select background

Image display

Normal

Applies to: Tile view

Icon rotation

45

Additional CSS classes

Additional CSS classes

Save

Cancel

Tile view:



Applies to Tile view:

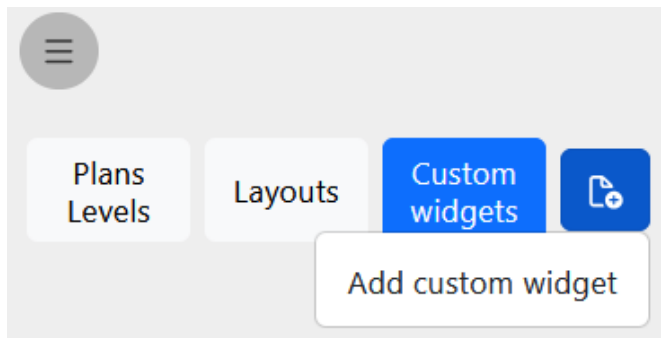
- **Border width** - border width in pixels.
- **Border color** - border color.
- **Rounded corners** - Default / Disabled / Enabled .
- **Widget shadow** - Default / Disabled / Enabled .
- **Color** - background color.
- **Image** - background image.
- **Image display** - Normal / Repeat / Scale (fit) / Scale (fill)

Applies to Plan view and Tile view:

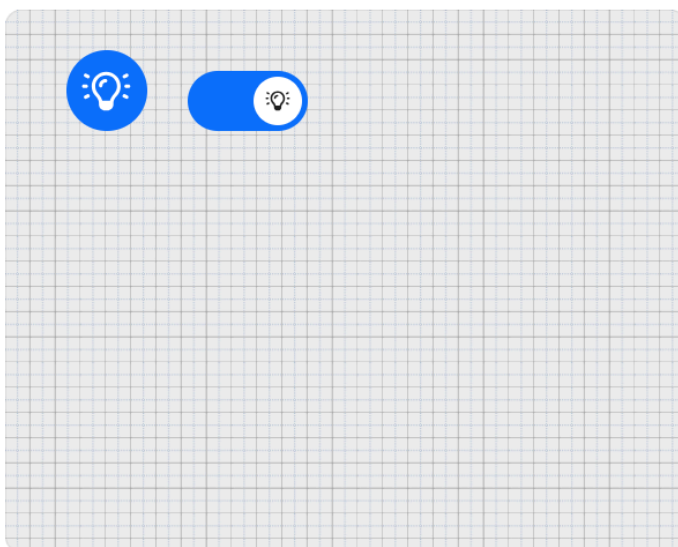
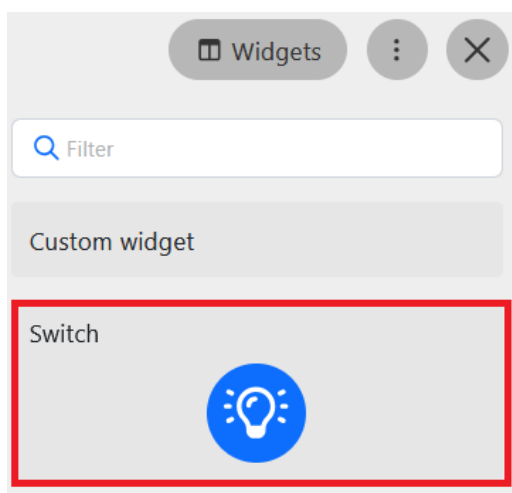
- **Icon Rotation** - rotates the icon in degrees from -359° to +359° .
- **Additional CSS classes** - additional classes to use with Custom CSS

## 7.2. Creation of the custom widget

The Custom widget can be created under the Custom widget section in the Menu element. Custom widget must have smaller size then the plan on which widget is used.

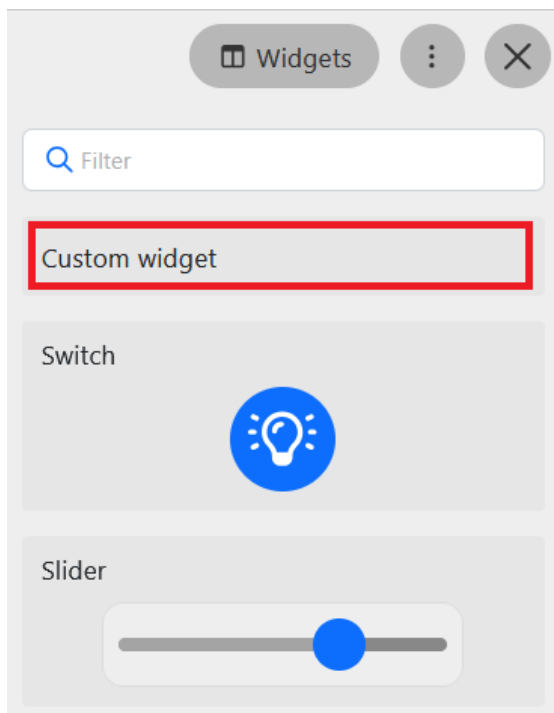


Any other widget can be added to the custom widget.





The widget is added to the plan by selecting the desired Plan/Layout and then Custom widget from the widget list.



### 7.2.1. Custom widget configuration (Configuration)

Widget configuration (Custom widget)

Configuration

Objects

Appearance

Show

Both

Custom widget

- Select custom widget -

☐ Show close button

Compact mode

☒ Enable widget compact mode in Plan view

Display mode

Icon

Shape

No shape

Icon

Color

Additional values / icons

Plan view

Plan X

10

Plan Y

10

Stacking order

1

Compact mode element

Width

64

Height

64

Popover X

Popover X

Popover Y

Popover Y

Tile view

General settings

Decimal places

Decimal places

Save

Cancel

- **Show** - Plan view, Tile view, Both - widget can be visible only on Plan, Tile or Both views.
- **Custom widget** - list of created custom widgets, selected widget will be added.

## General settings

### Decimal places

Decimal

- **Decimal places** - sets the number of decimals if a floating point status object is used

### 7.2.2. Custom Widget configuration (Objects)

The screenshot shows a dialog box titled 'Widget configuration (Custom widget, ID: 7)'. It has four tabs: 'Configuration', 'Objects' (which is selected and highlighted in blue), 'Replace group addresses', and 'Appearance'. In the top right corner of the dialog, there is a 'Reload object list' button with a circular arrow icon. Below the tabs, there is a 'Status' section with a dropdown menu currently showing '- Select object -'. At the bottom right of the dialog, there are 'Save' and 'Cancel' buttons.

Status object is displayed if compact mode is enabled, this object is optional.

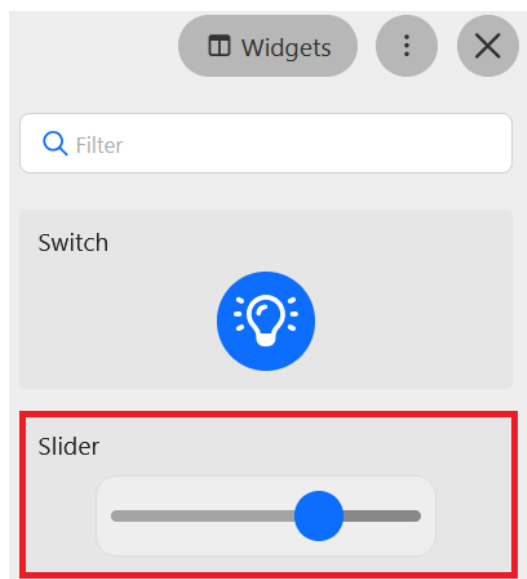
### 7.2.3. Custom widget configuration (Replace group addresses)

The screenshot shows the same dialog box as before, but with the 'Replace group addresses' tab selected and highlighted in blue. The 'Status' dropdown is no longer visible. Instead, there are three input fields: 'Main group address (0..63)', 'Middle group address (0..7)', and 'Group address offset (-255..255)'. Each field has a small dropdown arrow on its right side. Below these fields, there are two sections: 'Switch' with the text 'Control: M5DIAL - Display click (0/0/1)' and 'Toggle' with the text 'Control: M5DIAL - Display hold (0/0/2)'. At the bottom right, the 'Save' and 'Cancel' buttons are present.

The replace group addresses function is different then the one in Menu options. It allows virtually shifting widgets objects by a constant change to all objects on the widget. As a base it uses original widget addresses and they are shifted/changed accordingly. The shift functionality is exactly the same as in the ETS Paste special. One widget can be used multiple times on the visualisation as

each widget can have different shift/change settings. The original widget address is not changed as this change is virtual only.

## 7.3. Slider



### 7.3.1. Slider configuration (Configuration)

Widget configuration (Slider)

Configuration
Objects
Appearance

Show
Pincode

Both
Pincode

Compact mode

☒ Enable widget compact mode in Plan view

Display mode
Shape
Icon
Color

Icon and value
No shape

Value location
Horizontal alignment

Bottom
Center

Font size
Color
☐ Bold
☐ Italic
☐ Underline

Font size

Additional values / icons

Default text

Default text

+ Add additional value / icon

Plan view

Tile view

General settings

Save
Cancel

## Compact mode:

If an icon and value are selected then additional options appear.

- **Value location** - gives an opportunity to set the location of the value - bottom, right, inside.
- **Horizontal alignment** - left, center, right (alignment of the value)
- **Vertical alignment** - appears if value location - "inside" is selected - top, center, bottom (alignment of the value)





















**Additional values/icons** - allows for creating different graphical state of icon and/or value based on object value.

**Add additional values/icons-** New range definition is created after selecting the button. After defining the first range, the next one will automatically create the next one based on the one just created. Depending on the Display mode, the configuration allows setting different values.

Additional values / icons 4 ^

Default text

Default text

Min value	Max value	Text	Color	Icon	Color	Background	
10	25	Min					
25	40	Low					
40	55	Medium					
55	70	Max					

+ Add additional value / icon
↺ Load object custom values

- **Min value** - minimum value of slider's range (included)
- **Max value** - excluded value of slider's range (excluded)
- **Text** - text for specific slider's range
- **Color** - color of text for specific slider's range
- **Icon** - icon for specific slider's range
- **Color** - icon's color for specific slider's range
- **Background** - background's color for specific slider's range

General settings ^

Minimum

Maximum

Step

Decimal places

10

70

5

Decimal places

Step buttons

Show, min/max on press ▾

Step DOWN / Min button

Icon

Color

Background color

<

Step UP / Max button

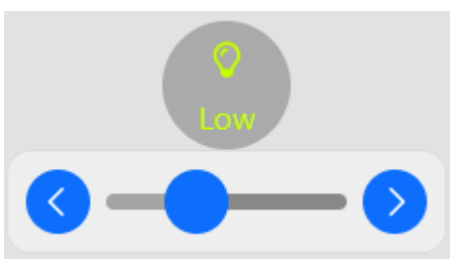
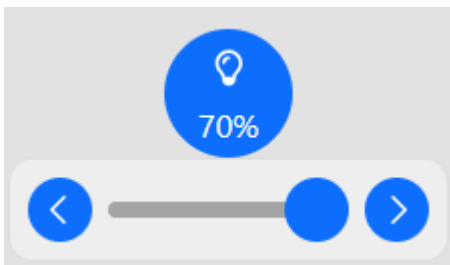
Icon

Color

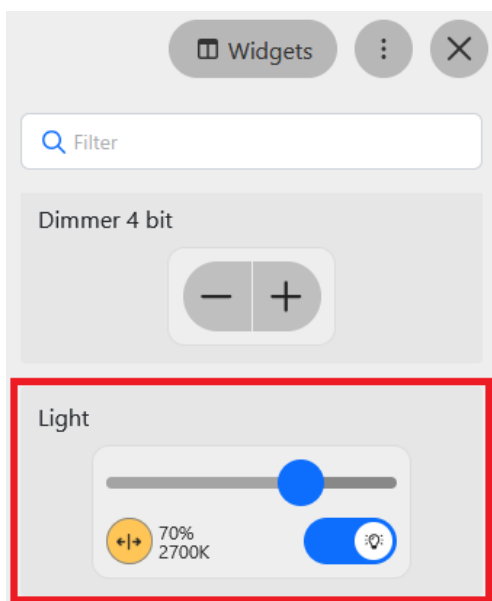
Background color

>

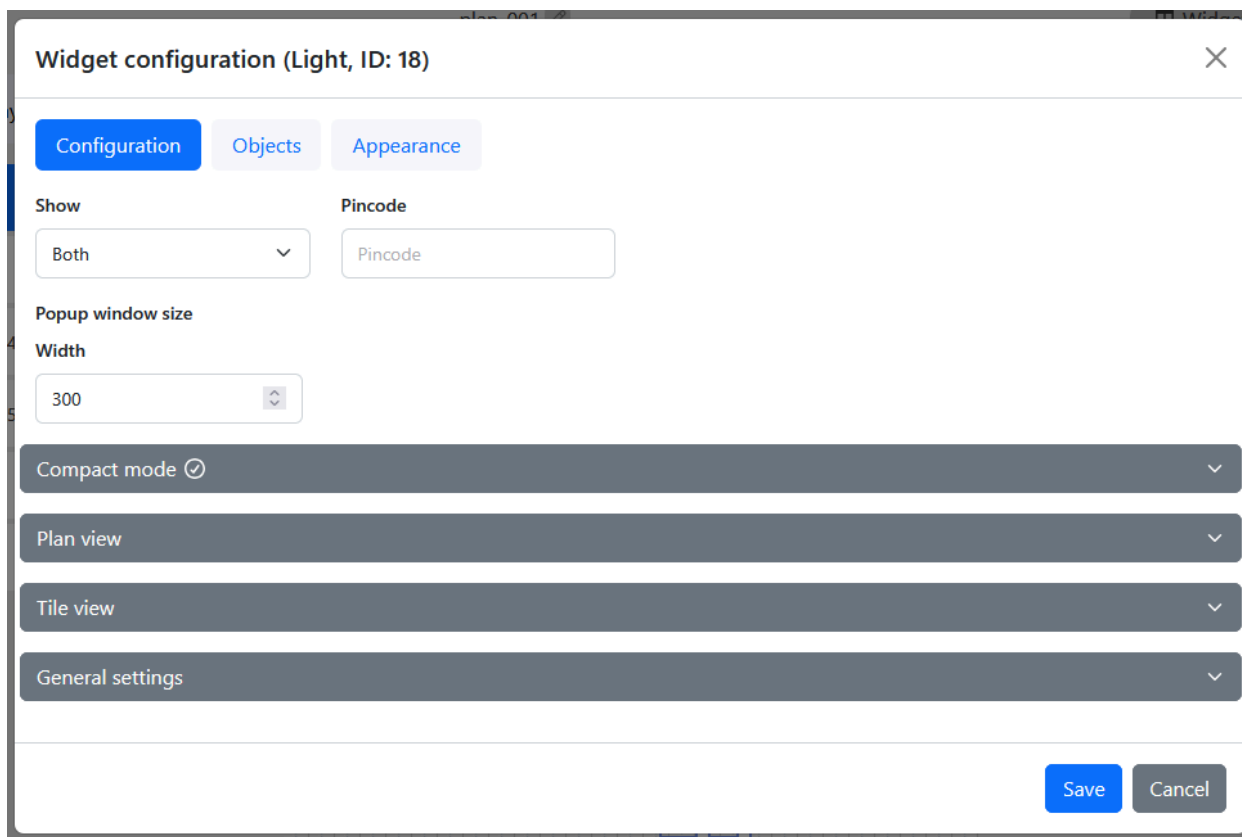
- **Minimum** - lower limit of the slider range
- **Maximum** - higher limit of the slider range
- **Step** - Value on the slider will jump only based on the defined step
- **Decimal places** - In case a floating object is used for widget status then decimal places can be defined accordingly
- **Step buttons:**
  - **Hide** - do now show step buttons
  - **Show, min/max on press** - changes value to minimum or maximum on press
  - **Show, step on press** - increases/decreases value by step



## 7.4. Light



### 7.4.1. Light configuration (Configuration)





General settings ^

Control mode

Scale / RGB ▾

Step buttons

Show, step on press ▾

Step

Step ▴ ▾

☒ Apply current color to icon


☒ Show on/off toggle


OFF state


Icon

Color

Background color









ON state


Icon

Color

Background color









Step DOWN / Min button


Icon

Color

Background color









Step UP / Max button


Icon

Color

Background color







Presets

Color


Color


Color


Color


Color


Color






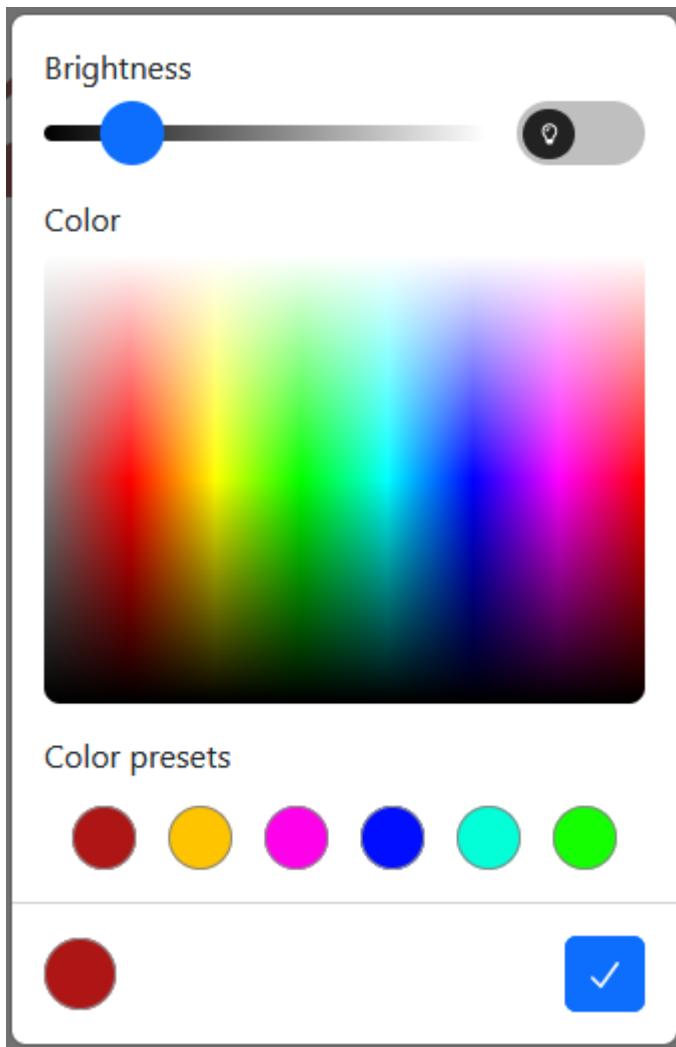




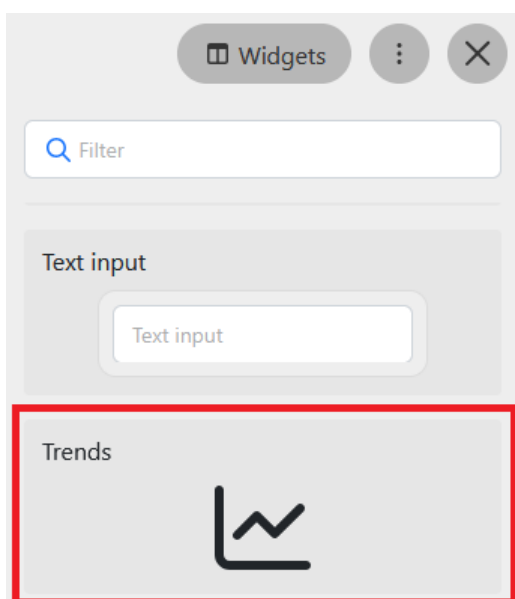




- **Control mode:** Scale; Scale / Color temperature; Scale / RGB; Scale / RGBW; Scale / Color temperature / RGB ; Scale / Color temperature / RGBW. By changing the mode, the list of objects will change accordingly. There are different settings based on the mode too. They all follow the same structure of a Slider and Switch widgets.
- **Apply current color to icon** - In compact mode the status icon will change color accordingly to selected color.
- **Show on/off** - the toggle button is added, this option also adds a switch object in objects tab.
- **Presets** - Selected colors will be displayed on the popup widget for a quick selection.



## 7.5. Trends



### 7.5.1. Trends configuration (Configuration)

Widget configuration (Trends)

Configuration

Appearance

Show

Both

Compact mode

Plan view

Plan X

Plan Y

Stacking order

10

10

4

Plan element

Width

Height

480

320

Tile view

General settings

Save

Cancel

General settings

Title

Title

Data period

Hour

Data length

24

Color preset

Light

☒ Show legend

☒ Show grid

Trends

Trend

Warm floor

Custom name

Custom name

Y axis

Left

Color

Trend

Conditioner

Custom name

Custom name

Y axis

Right

Color

Trend

- Select trend -

Custom name

Custom name

Y axis

Left

Color

Trend

- Select trend -

Custom name

Custom name

Y axis

Left

Color

Trend

- Select trend -

Custom name

Custom name

Y axis

Left

Color

Left Y axis

Axis minimum

0

Axis maximum

400

Labels width

Labels width

Units

Wh

Right Y axis

Axis minimum

0

Axis maximum

500

Labels width

Labels width

Units

Wh

Advanced settings

X axis grid spacing (pixels)

X axis grid spacing (pixels)

X axis grid to label ratio

X axis grid to label ratio

Left Y axis grid spacing (pixels)

Left Y axis grid spacing (pixels)

Right Y axis grid spacing (pixels)

Right Y axis grid spacing (pixels)

- **Title** - optional name for the trend widget, displayed on top centre.
- **Data period** - Definition of trend period in Hour, Day or Month
- **Data length** - Trend will display a fixed data length defined by Data period and Data length.
- **Color preset** - Light, Dark and Custom preset is possible. When Custom is selected then manual definition of each element is possible.
- **Show legend** - toggle the legend visibility
- **Show grid** - Toggle the grid visibility

Trend widget allows displaying trends created in the LogicMachine Trends tab. Up to 5 trends per widget are possible.

- **Trends**- selection of the trend from the previously created ones in the LogicMachine.

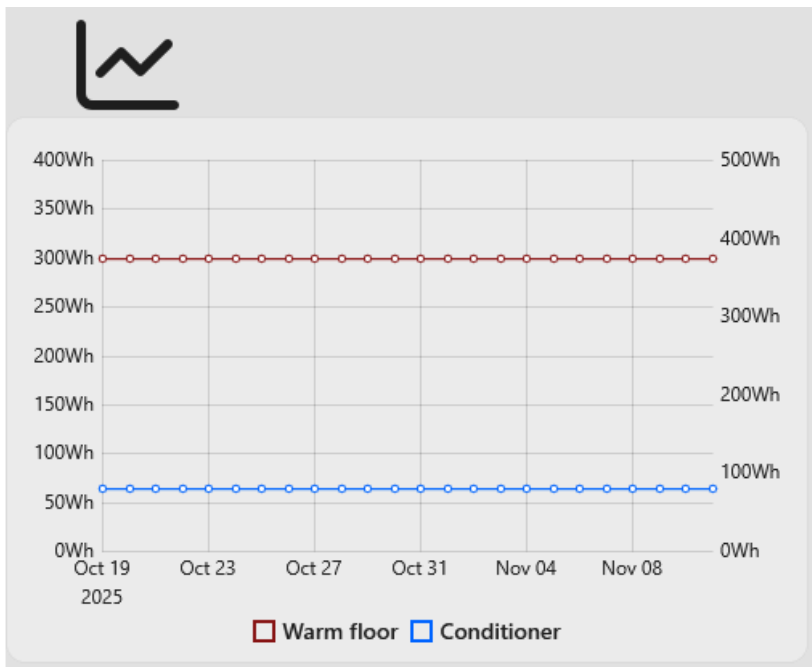
- **Custom name**- optional configuration to override trend name
- **Y axis** - Two different Y axis ranges are possible (defined below), trends can be grouped to the left and right Y axis to better display its values.
- **Color** - optional option to change trend color, if not used it will be done automatically.

#### Left/Right Y axis:

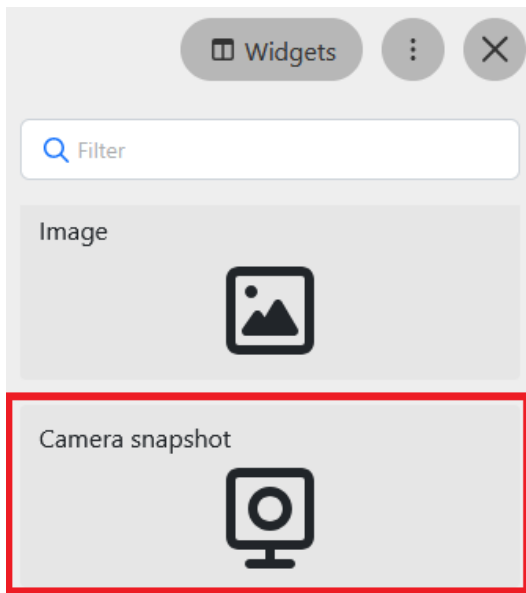
- **Axis minimum** - lower range for the trends
- **Axis maximum** - higher range of the trends
- **Label width** - optional configuration to define Y axis value level size
- **Units** - The unit will be displayed on the trend

#### Advanced settings:

- **X axis grid spacing (pixels)** - defines the distance between each X axis of the grid.
- **X axis grid spacing (pixels)** - define how often the label will be shown next to the X axis on the grid.
- **Left/Right Y axis grid spacing (pixels)** - defines the distance between each Y axis of the grid.



## 7.6. Camera snapshot



#### 7.6.1. Camera snapshot configuration (Configuration)

Widget configuration (Camera snapshot)

Configuration

Appearance

Show

Both

Compact mode

Plan view

Plan X

Plan Y

Stacking order

10

10

5

Compact mode element

Width

Height

64

64

Popover element

Width

Height

Popover X

Popover Y

480

320

Popover X

Popover Y

Tile view

General settings

Save

Cancel

General settings

URL

Refresh (seconds)

http://192.168.1.68/jpeg

5

☒ Request snapshot using local proxy (this can negatively affect overall performance)

User

Password

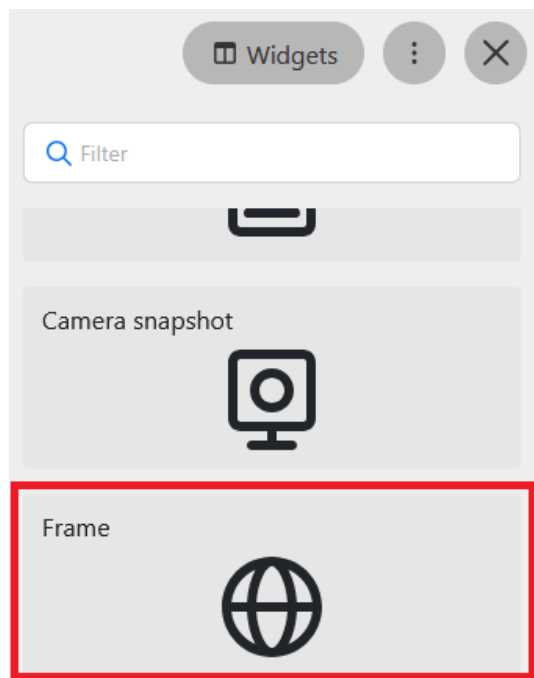
admin

••••••••

- **URL** - Stream of jpeg image of the camera.
- **Refresh(seconds)** - The image will be refreshed based on this parameter.
- **Request snapshot using local proxy** - When selected the image will be processed through LogicMachine and then sent to the browser. This will significantly increase CPU consumption. This option should be used with cautions. A lower resolution image is recommended. There is a limit of 1MB for the image size.

When cloud is used then the image is processed by LM proxy even if the option is not selected.

## 7.7. Frame



The Frame widget can be used to embed the interface of LogicMachine application directly into your dashboard.

### 7.7.1. Frame widget configuration (Configuration)



Widget configuration (Frame, ID: 20)

Configuration

Appearance

Show

Both

Compact mode

Enable widget compact mode

Display mode

Icon

Shape

No shape

Icon

Color

Plan view

Plan X

450

Plan Y

449

Stacking order

5

Compact mode element

Width

64

Height

64

Popover element

Width

640

Height

480

Popover X

0

Popover Y

0

Tile view

General settings

Frame source URL

/scada-vis/trends

Refresh (seconds)

100

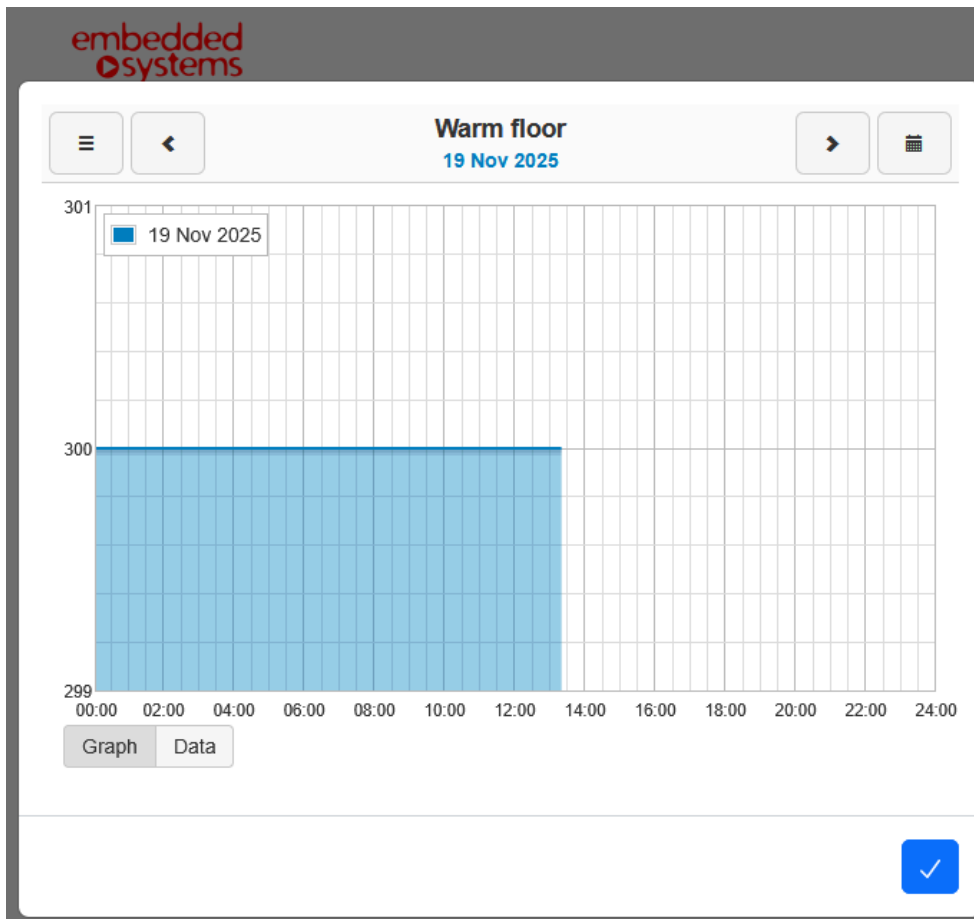
Save

Cancel

- Frame source URL** - The url source of a website to be displayed inside the frame. Local apps can be displayed inside frame, when this is done there is no need for the IP/domain  
 Example url for trends: /scada-vis/trends

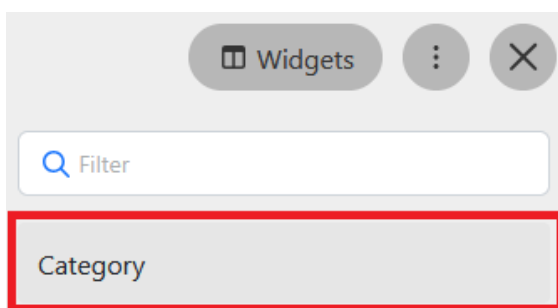
LogicMachine is not processing the content of the url, it only tells the browser where to look for the source. Cloud will only display the content of the frame if the same app is in the cloud or source is on the internet.

- Refresh (seconds)** - The frame can be automatically refreshed if needed.



## 7.8. Category

Categories are the containers within Tile view for several widgets. After creation, widgets must be dragged inside category widget. They are visible under Widgets in Tile view mode only.



## Category

