

3.5

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CONTROL YOUR LIVING SPACE

MATTER

Fieldbus Configuration Manual



DELÉGO SERVER

Visualisation webserver

EK-DEL-SRV01 / EK-DEL-SRV01-M

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1 Introduction

1.1 Scope of this manual

MATTER is the standard for smart home IOT, used by many connected accessories and compatible with several ecosystems like Apple Home, Amazon Alexa, Google Home and Samsung SmartThings.

DELÉGO SERVER implements the MATTER protocol in two different ways:

- **CONTROLLER:** the webserver can control MATTER accessories and make them interact with KNX and the other supported cabled technologies
- **BRIDGE:** a subset of the configured widgets can be exposed to a MATTER ecosystem, in order to be managed by the corresponding apps and voice assistants

The present user manual is part of the suite of application manuals dedicated to the DELÉGO SERVER, available on the section dedicated to this product in the EKINEX website. Before reading this document, it is recommended to consult the following application manuals:

REF	DOCUMENT	DESCRIPTION
[D1]	DOCUMENTATION PLAN	Overview of the application manuals of DELÉGO SERVER
[D2]	GENERAL FUNCTIONS - APPLICATION USER MANUAL	General installation manual of the webserver
[D3]	ONLINE SERVICES - APPLICATION USER MANUAL	Manual that describes how to use online services, such as VPN, cloud, with DELÉGO SERVER.
[D4]	KNX - APPLICATION USER MANUAL	Configuration and visualisation of a KNX automation system in DELÉGO SERVER
[D5]	AUTOMATIONS - APPLICATION USER MANUAL	Configuration of different typologies of automations among items, belonging to different supported technologies, in order to handle automatize the building

These documents are available for download in the area of the EKINEX website dedicated to the webserver.

1.2 Conventions

The following conventions are used in this manual:

[KEY]	The keyboard keys that the installer must press are shown in square brackets
<i>Courier</i>	Software messages generated by the DELÉGO SERVER configuration software are reported in the “courier” font
<i>Function name</i>	Names of buttons, table fields or other graphic elements of the user interface of the DELÉGO SERVER configuration software are shown in italics

[KEY]

The keyboard keys that the installer must press are shown in square brackets



Information note



Important note that requires particular attention

1.3 Safety information

DELÉGO SERVER is a product intended for trained and specialized personnel only; anyone who interacts with the device must first read this documentation, especially this safety information. This document supplements and does not replace any legislation or legal directives on safety.

The device has been developed following the safety regulations currently in force; however, it is not possible to exclude with certainty possible damage or interactions with other devices during its operation. The device complies with EMC guidelines and harmonized European standards; any modifications to the device may affect EMC compatibility.

The supply voltage must be strictly within the range indicated in the GENERAL FUNCTIONS application manual and on the device; risk of fire or explosion if powered outside this range. The CE declaration of conformity of the device can be requested from EKINEX®, at the references on the site www.ekinex-delego.com.



In compliance with Directive 2002/96/EC the DELÉGO SERVER electronic device must be disposed of in the appropriate facilities and not in the collection of solid urban waste.

1.4 Warnings

- This application manual is aimed at installers, system integrators and designers.
- The assembly, electrical connection, configuration and commissioning of the appliance can only be carried out by specialized personnel in compliance with the applicable technical standards and the laws in force in the respective countries
- Opening the appliance case causes the immediate interruption of the warranty period
- In the event of tampering, compliance with the essential requirements of the applicable directives for which the appliance has been certified is no longer guaranteed.
- EKINEX defective appliances must be returned to the manufacturer at the following address:
Ekinex S.p.A. Via Novara 37, 28010 Vaprio d'Agogna (NO)

1.5 Copyright

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This application manual, the DELÉGO SERVER software and the DELÉGO iOS and Android apps are subject to copyright; all rights are reserved. Copying, reproduction, translation and/or modification, even partial, are expressly prohibited unless approved in writing by EKINEX®.

1.6 Open Source Licenses

DELÉGO SERVER contains open source software, such as the Linux operating system and its kernel. These software components are subject to various open-source licenses, including:

- GNU General Public License (GPL), <https://www.gnu.org/licenses/gpl-2.0.html>
- GNU Lesser General Public License (LGPL), <https://www.gnu.org/licenses/lgpl-2.0.en.html>

If you own a product, for a period of 3 years from the last production date, you can request from EKINEX the source code of the software components licensed under the GNU General Public License (GPL) or the GNU Lesser General Public License (LGPL), and use, distribute and modify them in accordance with the respective licenses.

EKINEX cannot be considered responsible in any way for the source code thus distributed, which is provided without guarantees. EKINEX cannot also be held responsible for any damage or consequence resulting from modifications (additions / removals) made to this software by third parties, unless specifically authorized.

1.7 More information

- For further information on the product, you can contact EKINEX technical support® to the e-mail address: support@EKINEX.com or consult the website www.EKINEX.com
- EKINEX® is a registered trademark of Ekinex S.p.A.
- KNX® ed ETS® are registered trademarks of KNX Association cvba, Brussels
- MATTER® is a registered trademark of CSA Connectivity Standards Alliance, Davis CA (United States)

The company reserves the right to make changes to this documentation without notice.

2 Matter Controller

2.1 Preliminary operations

2.1.1 Enrollment

Before becoming available for the management in DELÉGO SERVER, a MATTER native device must be enrolled to one of the following smart home ecosystems (typically the preferred one by the end user):

- Google Home
- Apple Home
- Amazon Alexa
- Samsung Smarthings

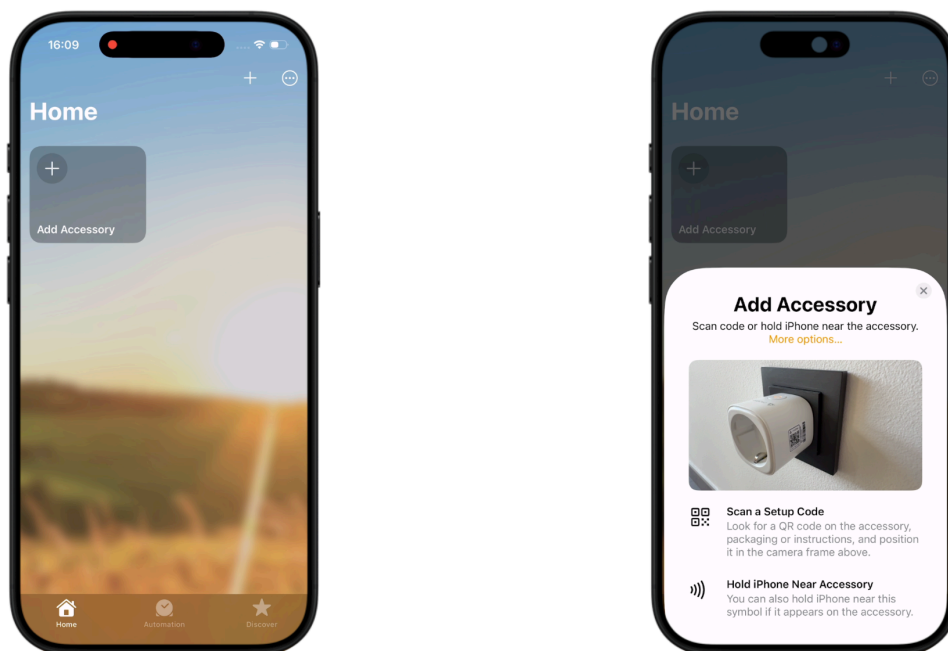
This operation normally associates the device to the home WIFI network, and adds it to the devices that can be managed by the corresponding app; the following examples refer to the Apple Home ecosystem.



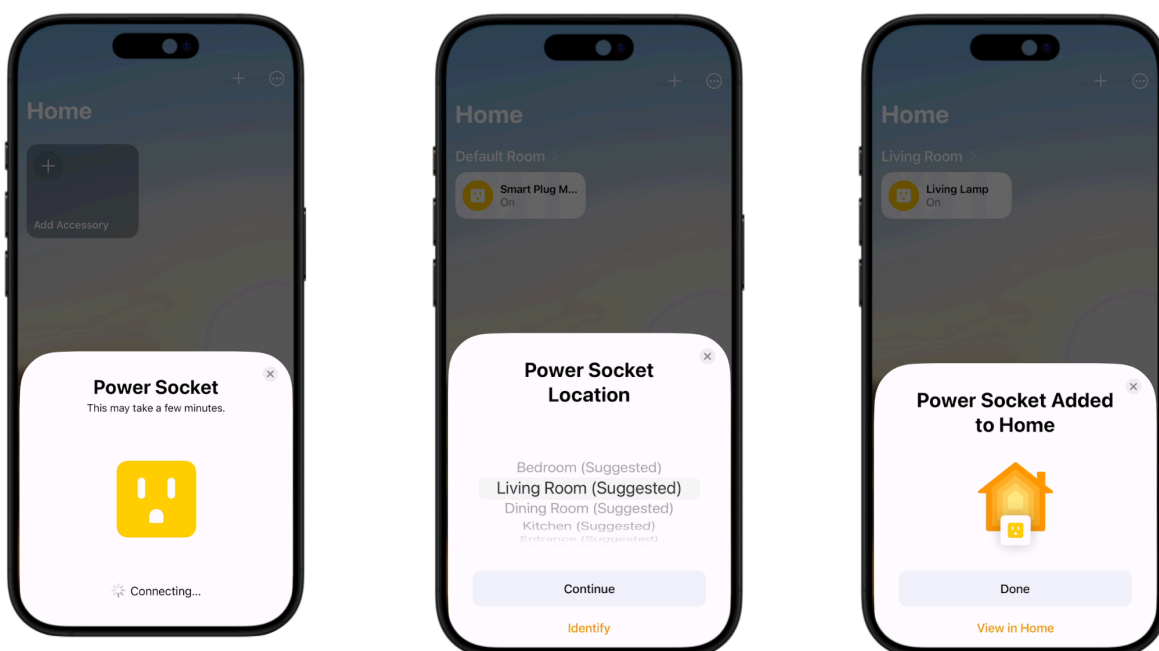
It is also possible to manage devices, or groups of devices, not natively based on MATTER, but compatible with the standard by means of a gateway device, which is normally referred to as the “border router”. The PHILIPS HUE smart lighting system, based on the ZigBee radio protocol, is an example.

In this case, the enrollment stage is not necessary, and the PAIRING can be directly done, by following the specific instruction of the manufacturer of the compatible system.

Adding a new accessory typically requires to scan the QR code printed on the device:



After a while (the operation can take some minutes) the app recognises the typology of the device, and asks in which room to add it. This depends on the specific app you are using; the following screenshots refer to the enrollment of a smart plug into the Apple Home application:

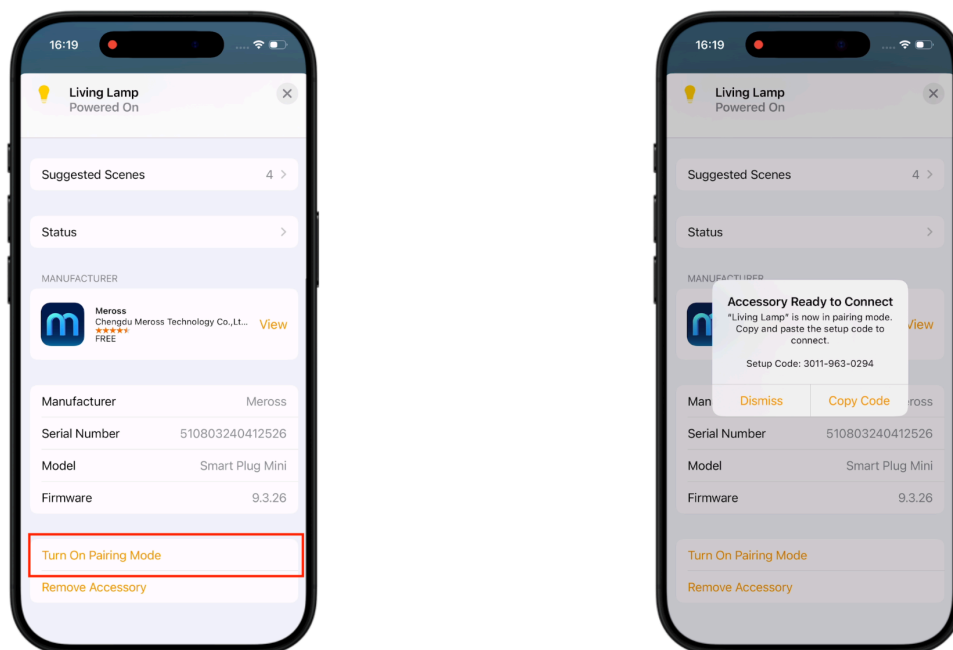


Finally, the new device can be controlled from the belonging room, like in the following example:



2.1.2 Pairing

In order to be controlled by DELÉGO SERVER, the device must be put in PAIRING MODE. This can be done directly by the preferred smart home app, normally by entering in the device settings; the following screenshots show how to do it in Apple Home:



The given pairing code can be copied and pasted (or manually entered) into DELÉGO SERVER, as described in the next chapter.



The pairing code is valid only for some minutes after its activation; ensure to complete the procedure in the webserver on time!

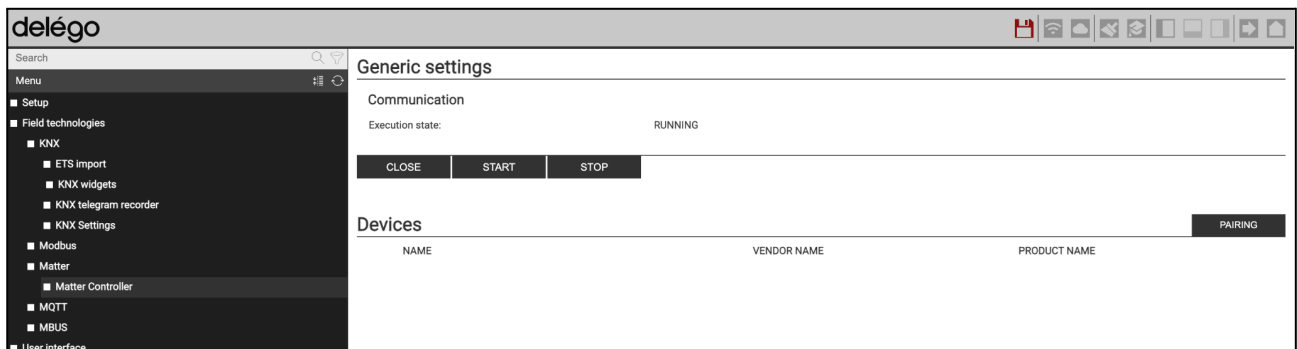
2.2 Configuration

2.2.1 Introduction

In order to manage one or more MATTER devices in DELÉGO SERVER, access the

FIELD TECHNOLOGIES > MATTER > MATTER CONTROLLER

Section of the administration manual. The following empty page is displayed:



If the controller is not in RUNNING state, press the START button before proceeding.

Each physical MATTER device, after the configuration described below, will be listed in the DEVICES section of this page. This is valid not only for matter native products, but also for compatible systems; in this second case, the gateway (border router) will be listed here.

A MATTER device (also called NODE in the standard terminology) can offer more than one functionalities, referred to as ENDPOINTS. An example can be a sensor, offering both the light brightness and the presence of persons in a room: those two functionalities can be used independently, despite the fact they're offered by the same hardware.

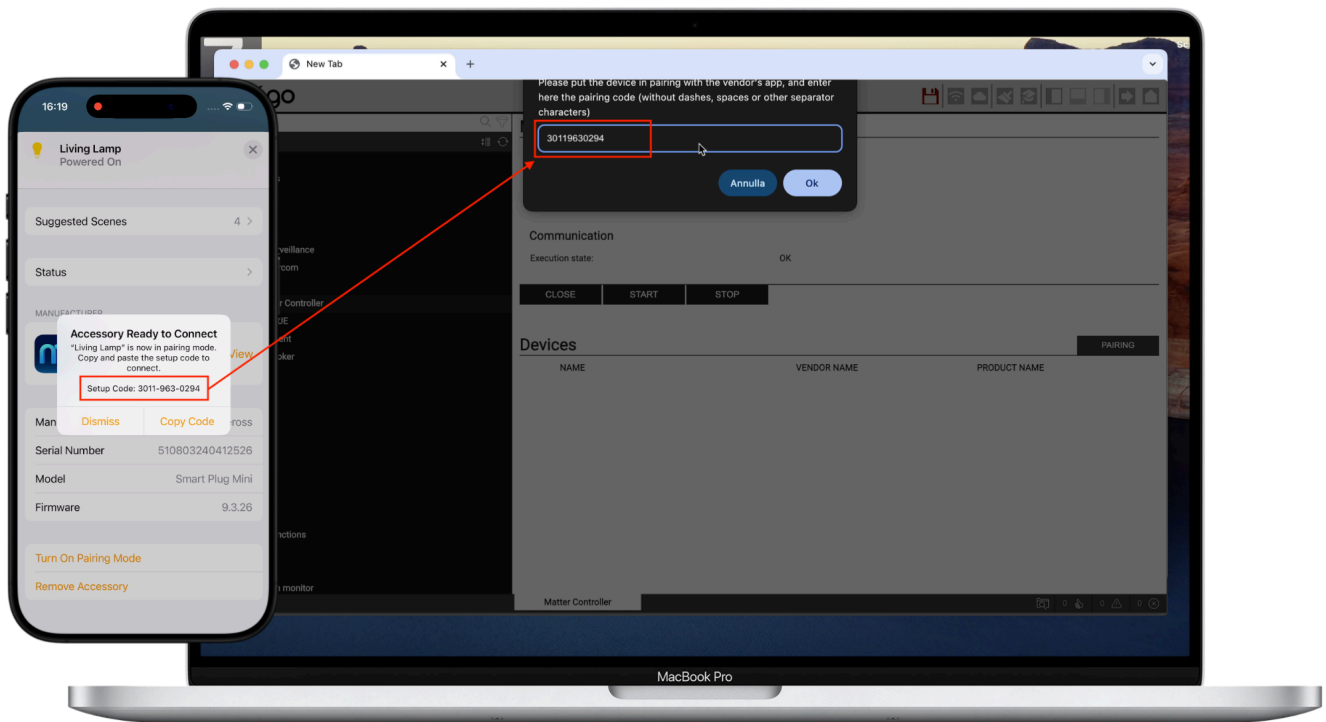


This is especially true for compatible systems: in this situation, as mentioned above, the DEVICE is the gateway, and each appliance of the system, and ENDPOINT. This fact is because from the MATTER perspective, all those appliances behave as they would a single device (the border router itself).

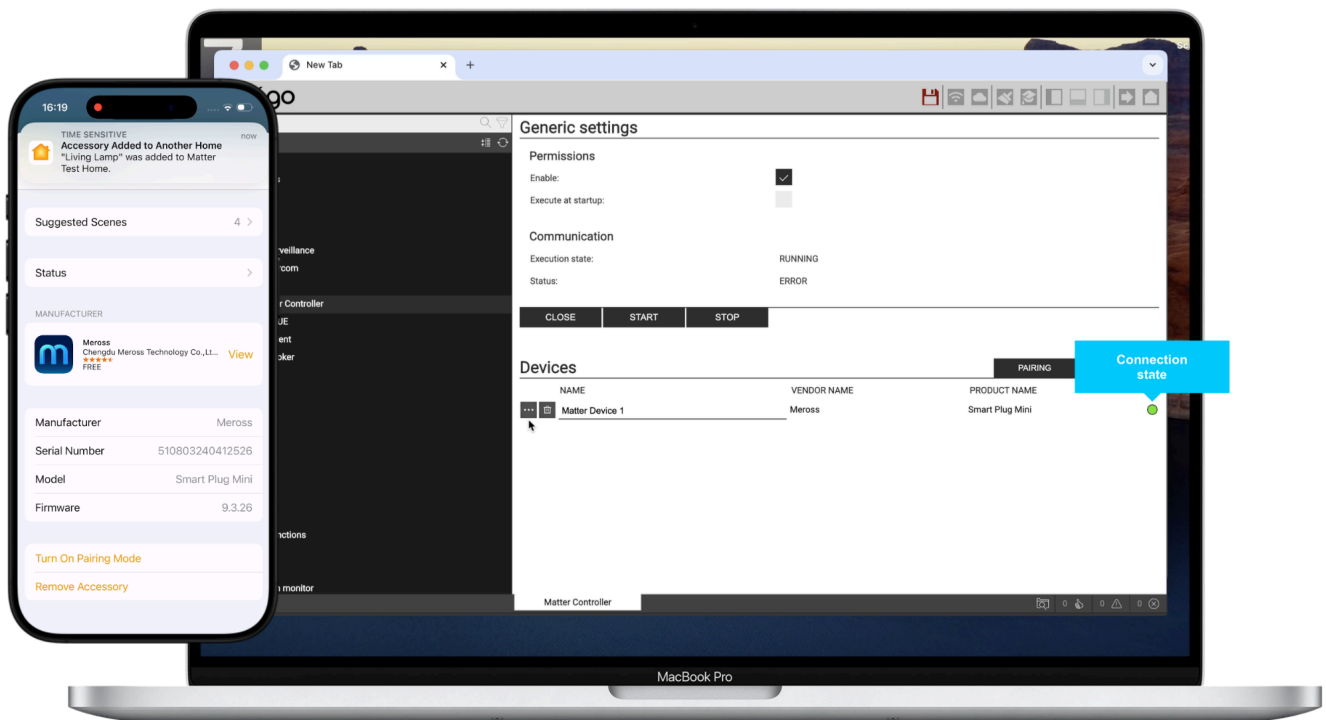
Each detected ENDPOINT becomes in DELÉGO SERVER a widget, which can be assigned to a FUNCTION and placed into a ROOM, exactly in the same way of the other types of widgets (KNX, Modbus etc...) as described in the [D2] GENERAL FUNCTIONS configuration manual.

2.2.2 Pairing

After having set the MATTER device in pairing mode, as described in the previous [Pairing](#) paragraph, press the PAIRING button in the controller page, and enter the pairing code:



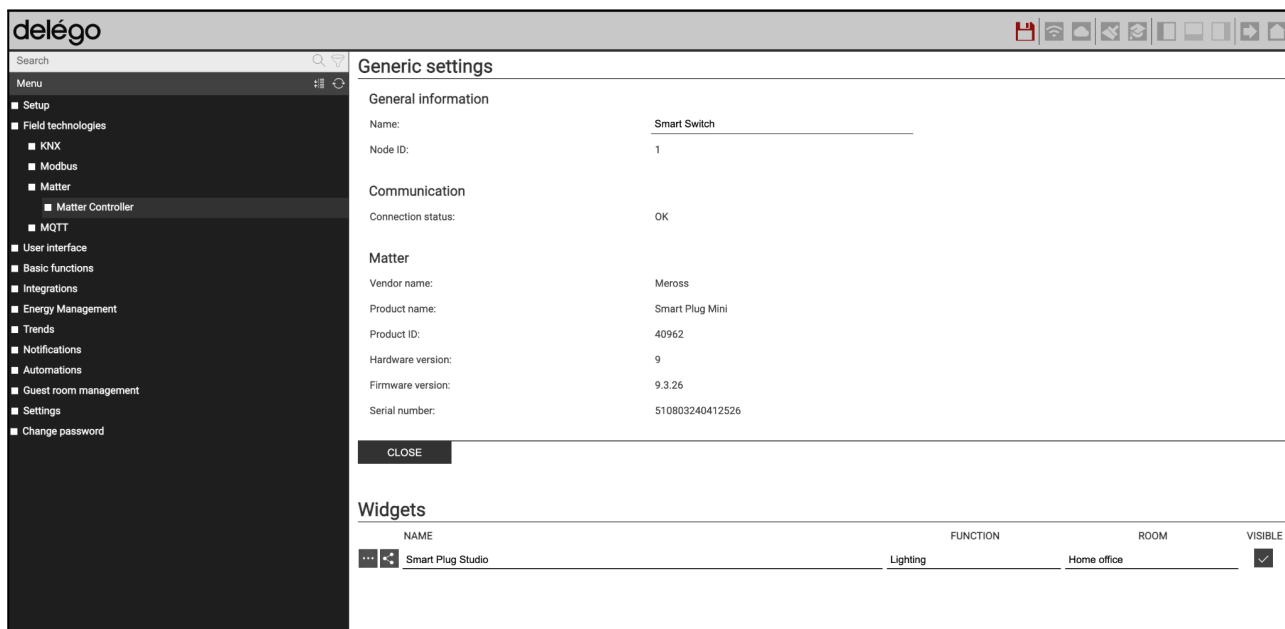
After a while, the new appliance is listed in the DEVICES section, like in the following example:



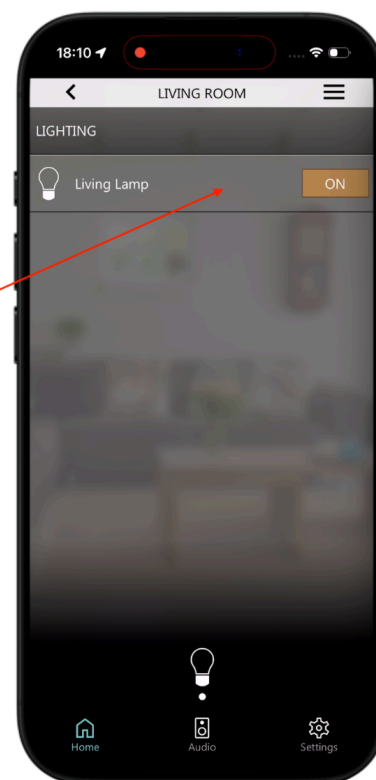
If the communication is established correctly, the indicator becomes green after some seconds. The device is now ready to be used; repeat eventually the pairing for other devices.

2.2.3 Widgets

By entering the device page (by pressing the corresponding EDIT button) a certain number of information (manufacturer, version etc...) are listed at the beginning of the page; the associated WIDGETs are displayed in the bottom section, like in the following example (of a smart plug):



In order the WIDGET to be displayed in the visualisation, as any other graphical element in DELÉGO SERVER, it must be assigned to a FUNCTION and an existing ROOM:



In the administration area, by entering once again in details into the widget, a page similar to the following example is displayed:

The screenshot shows the 'delégo' web interface. On the left is a dark sidebar menu with options like Setup, Field technologies (KNX, Modbus, Matter, Matter Controller, MQTT), User interface, Basic functions, Integrations, Energy Management, Trends, Notifications, Automations, Guest room management, Settings, and Change password. The main area is titled 'Generic settings' and contains three sections: 'General information', 'Attributes', and 'Commands'. 'General information' shows fields for Name (Smart Plug Studio), Node ID (1 1), Room (Home Office), and Function (Lighting). 'Attributes' and 'Commands' each have a table with columns for NAME, ENABLE, STATE, and TRACK. The 'Attributes' table has one row: 'Switch 1 - On/Off state' with ENABLE checked, STATE 'Off', and TRACK unchecked. The 'Commands' table has one row: 'Switch 1 - On/Off' with ENABLE checked, STATE 'Off', and TRACK unchecked.

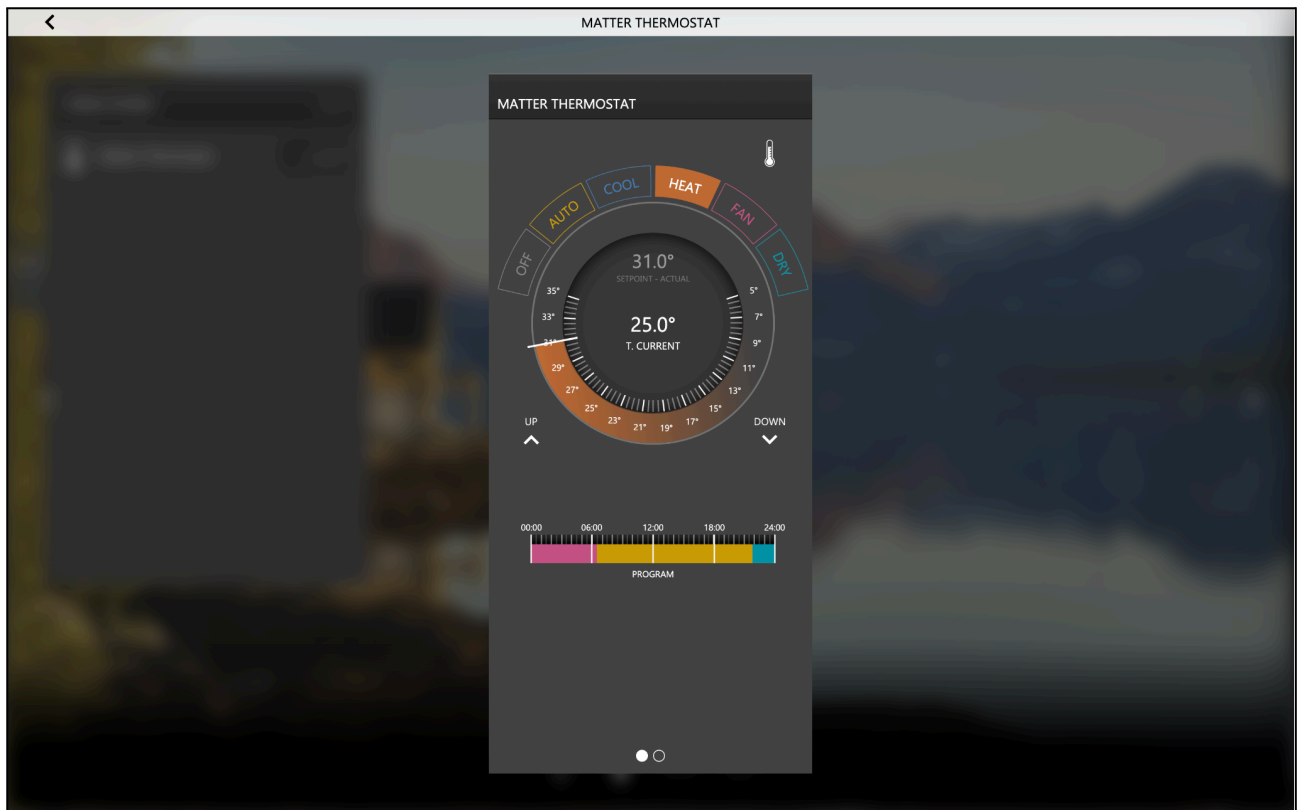
The ATTRIBUTES are information made available from the MATTER appliance, that can be eventually also written. As opposed, the COMMANDS are actions that can be performed; in the example of a smart plug, to switch it ON or OFF, or to TOGGLE its state.

The following example represents a thermostat, which normally gives a higher number of attributes:

The screenshot shows the 'delégo' web interface for a 'Matter Thermostat' device. The 'General information' section shows Name (Matter Thermostat), Node ID (3 1), Room (Home Office), and Function (HVAC). The 'Attributes' section contains a table with 7 rows of attributes, each with an ENABLE checkbox, a STATE value, and a TRACK checkbox. The 'Commands' section is empty. At the bottom, a breadcrumb trail shows 'Matter Controller' > 'Thermostat' > 'Matter Thermostat'.

NAME	ENABLE	STATE	TRACK
Matter Thermostat - Temperature	☒	25.0°	☒
Matter Thermostat - Heating absolute minimum limit	☒	5.0°	☐
Matter Thermostat - Heating absolute maximum limit	☒	45.0°	☐
Matter Thermostat - Heating setpoint	☒	31	☒
Matter Thermostat - Heating setpoint minimum limit	☒	5	☐
Matter Thermostat - Heating setpoint maximum limit	☒	35	☐
Matter Thermostat - Mode	☒	Heat	☐

The following screenshot shows how a MATTER thermostat appears in the DELÉGO SERVER visualisation:



2.2.4 Supported product families

At the actual moment DELÉGO SERVER supports the following device families:

- Lights
- Motorizations
- Smart plugs / switches
- Thermostats
- Brightness and motion sensors

If a device is not recognised by DELÉGO SERVER, an error is given at the end of the pairing procedure. Ekinex continuously work to expand the compatibility to new families and functionalities; feel free to contact us to get specific support, and ask to add new products to our development roadmap.



Even if the MATTER standard has a fixed list of families and the corresponding attributes and commands, a specific manufacturer can implement a subset of them. For this reason, two devices belonging to the same type (e.g. thermostats) can appear in different ways (for example, one can manage only the heating, and the other also the cooling).

Furthermore, DELÉGO SERVER could not implement all the features that the device offers in other smart home ecosystems; this is due to compatibility constraints, which can evolve in time and change among software versions of the webserver.

2.3 Automations

2.3.1 Introduction

Once a MATTER device has been created in DELÉGO SERVER, it can be combined with other widgets / functions, in order to exchange information and/or trigger cross-technology actions.

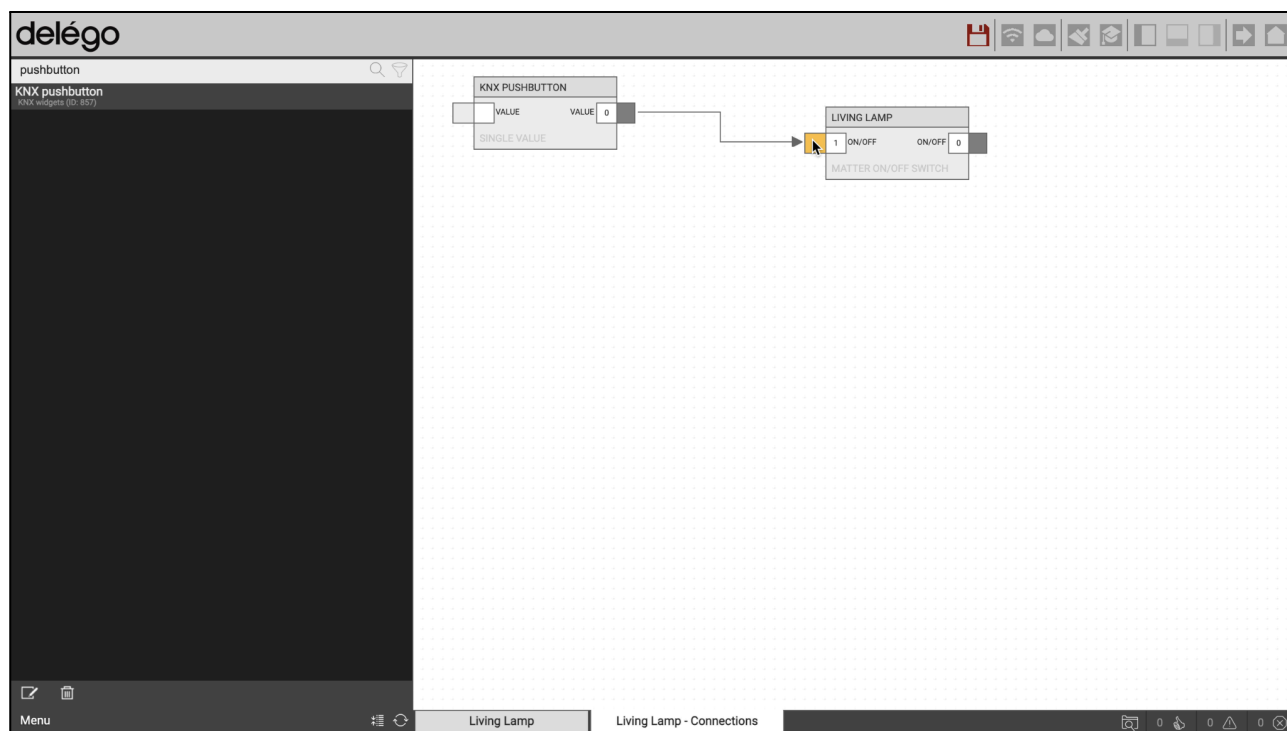
As an example, a KNX light in a hallway can be switched ON when a MATTER presence sensor detects a person. As opposed, a KNX wall-mounted pushbutton can command a traditional light powered by means of a MATTER smart plug.



2.3.2 Connections

The simpler way to combine a MATTER device with other supported technologies in DELÉGO SERVER, is to create a new CONNECTION (AUTOMATIONS > CONNECTIONS > [+] BUTTON) and drop into it, the MATTER widget which represents the functionality.

Do the same with the other technological function (a light, a pushbutton etc...) and connect the input / output nodes, in order to realize the desired automation:



Alternative ways to do bidirectional automations are the ACTIONS / TRIGGERS and the LOGIC MODULE of DELÉGO SERVER. For more information please refer to the manual dedicated to the AUTOMATIONS [D5].

3 Matter Bridge

3.1 Introduction

A subset of the widgets configured in DELÉGO SERVER can be exposed to a MATTER ecosystem, in order to make them manageable by the corresponding app and/or voice assistants.

One or more of the following systems can be connected in this way:

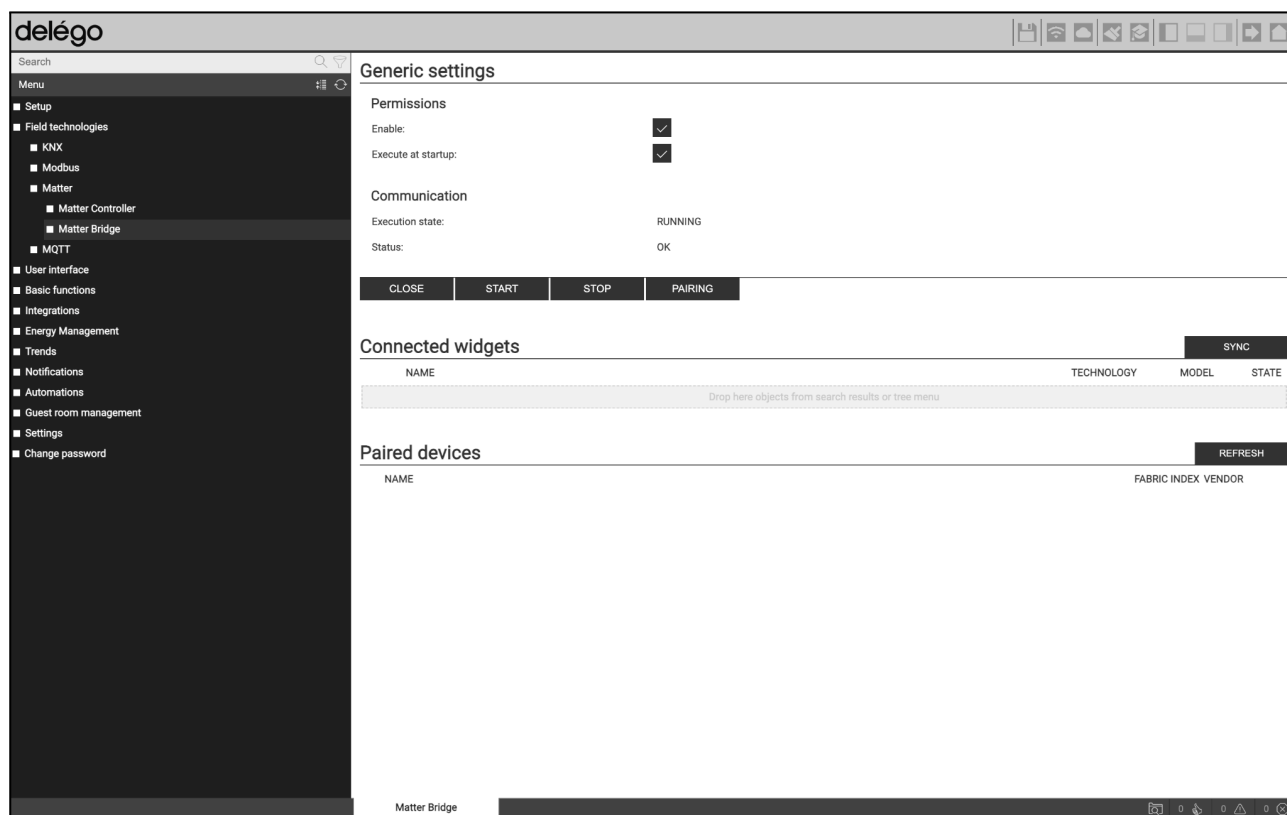
- Apple Home
- Amazon Alexa
- Google Home
- Samsung SmartThings

3.2 Bridge start

Select the menu item

FIELD TECHNOLOGIES > MATTER > MATTER BRIDGE

to open the following page:



Flag the “EXECUTE AT STARTUP” checkbox and press the START button; after a few seconds the BRIDGE will go to the RUNNING execution state and OK status.

3.3 Widgets association

Search for the desired widgets (in the search field on the left) and drag+drop them into the CONNECTED WIDGETS list. The following KNX and MODBUS WIDGETS are compatible with the MATTER BRIDGE:

CATEGORY	TEMPLATE	COMMANDS / STATES
Lighting	ON/OFF light	ON/OFF
	Dimmer	ON/OFF switch Brightness level White temperature
	RGBW	ON/OFF Brightness level HSV (color selection)
Motorizations	Shutter with percent position	Up/Down Percent position
	Venetian blind with percent position and slat orientation	Up/Down Percent blind position Percent slats orientation
HVAC	Thermostat	Measured temperature Temperature setpoint ON/OFF Heating / Cooling Fan speed
	AC unit	Measured temperature Temperature setpoint ON/OFF Operating mode Fan speed Swing
Other	Socket	ON/OFF

Other templates and technologies will be added in future versions.

The associated widgets are initially not active in the MATTER BRIDGE (YELLOW color) until the SYNC button is pressed.

When done, the compatible widgets become GREEN and the corresponding model is shown:

The screenshot shows the delégo web interface. On the left is a sidebar menu with categories like Setup, Field technologies, Matter, MQTT, User interface, Basic functions, Integrations, Energy Management, Trends, Notifications, Automations, Guest room management, Settings, and Change password. The main area is titled 'Generic settings' and contains two sections: 'Permissions' and 'Communication'. Below these are buttons for 'CLOSE', 'START', 'STOP', and 'PAIRING'. The 'Connected widgets' section displays a table of devices.

			SYNC	
NAME	TECHNOLOGY	MODEL	STATE	
... X Luce bagno zona notte	KNX	---	●	
... X Luce bagno zona studio	KNX	---	●	
... X Luce camera matrimoniale	KNX	on_off_light	●	
... X Luce cameretta	KNX	on_off_light	●	
... X Luce corridoio	KNX	on_off_light	●	
... X Luce cucina	KNX	on_off_light	●	
... X Luce lavanderia	KNX	on_off_light	●	
... X Luce scale inferiore	KNX	on_off_light	●	
... X Luce scale superiore	KNX	on_off_light	●	
... X Luce stanza ospiti	KNX	on_off_light	●	
... X Luce stanza giochi	KNX	on_off_light	●	
... X Luce studio	KNX	on_off_light	●	
... X Lampada salotto	KNX	on_off_light	●	
... X Lampadario salotto	KNX	on_off_light	●	
... X Presa cameretta	KNX	on_off_light	●	
... X Presa studio	KNX	on_off_light	●	

At the bottom of the table, there is a note: 'Drop here objects from search results or tree menu'.

The widgets that are not supported remain in **RED** color, and will not be available on MATTER.

3.4 Pairing

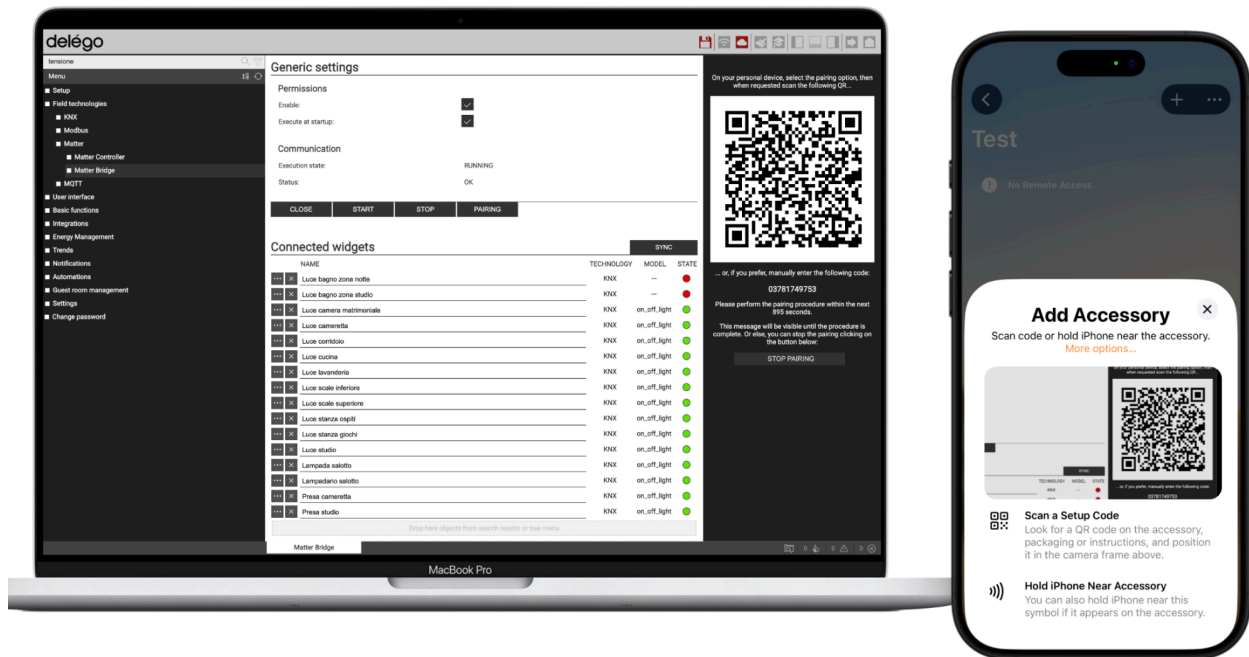
In order to manage the associated in a MATTER compatible ecosystem, press the PAIRING button; a QR CODE is presented in the right panel.

Scan the QR code in the external app to start the pairing (or alternatively enter manually the pairing code, if for some reasons the QR code cannot be scanned); the following examples refer to the APPLE HOME app, and may vary in the other ecosystems.

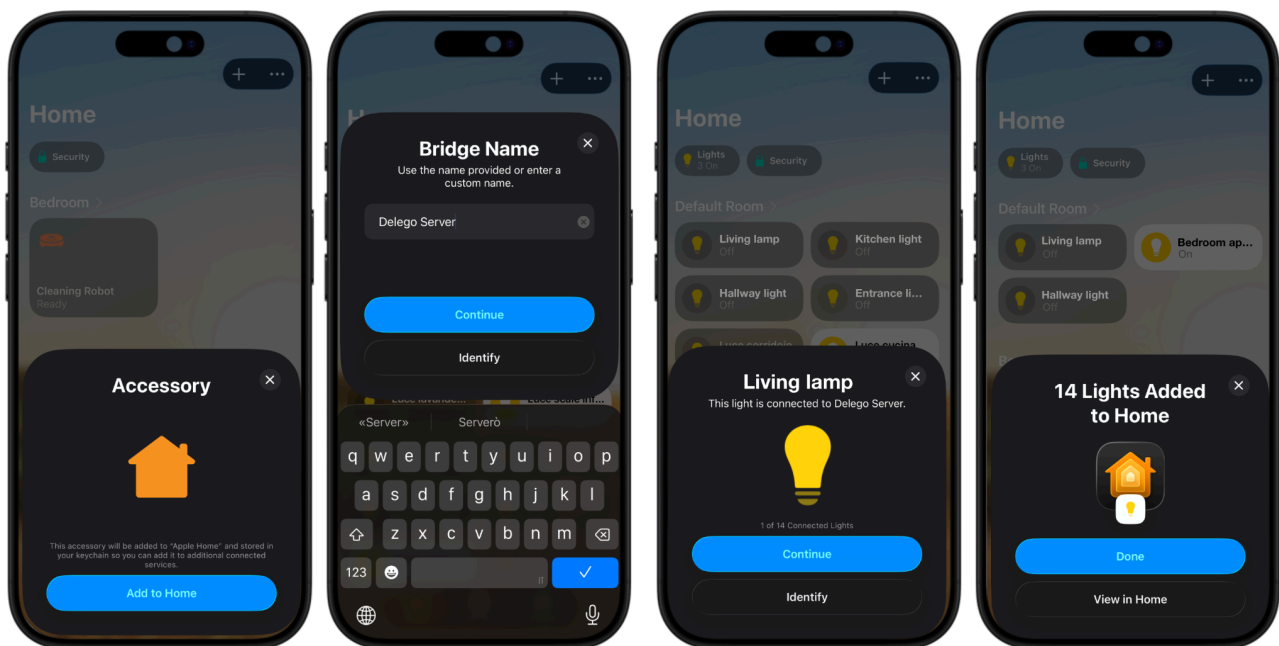


The pairing must be completed in 15 minutes, and can be stopped before that timeout with the corresponding button. If a pairing procedure is in progress on one PC, it cannot be started on a second computer, unless the first finishes.

The following picture shows an example of the pairing procedure:



The pairing process typically asks to add the bridge to the MATTER ecosystem and then requests a confirmation (or customisation) of the name of each widget, and the room where it has to be added to:



Due to the fact the MATTER certification of DELÉGO SERVER is in progress, a warning could appear during the procedure; select ADD ANYWAY (or similar) to proceed. This does not compromise the functionality or security of the system.

It is possible to associate further widgets to the bridge after the pairing; in such a case, after a while, the new widgets become automatically available on the MATTER ecosystem. If they do not appear, try a pairing again.

3.5 Supported widgets

3.5.1 Premise

Not all the WIDGET templates are compatible with the MATTER BRIDGE, due to limitations of the standard; some features offered by DELÉGO SERVER are in fact still not available in MATTER, and will be added in the future. Generic widgets also cannot be reported in Matter, because they do not fall into a specific category.

Furthermore, within a supported WIDGET not all the items (addresses) are involved in the MATTER BRIDGE, because the management in MATTER of some features is highly simplified as compared to DELÉGO SERVER. A thermostat, for example, can have in MATTER only one temperature setpoint, and does not support the HVAC operating mode (comfort, standby, economy etc...).

This limitation is similar to what happens with AMAZON ALEXA and GOOGLE HOME voice assistants; generally speaking the supported items in the MATTER BRIDGE are the same available for the voice control, and are identified by the active “VOICE” symbol in the list, as in the following example:

The screenshot shows the delégo web interface. On the left is a navigation menu with categories like Setup, Field technologies, KNX, Modbus, Matter, and MQTT. The main area is titled 'Object properties' and shows details for an RGBW object. Below this is a table of 'KNX addresses' with columns for functionality, voice command, feedback, write, and state. A blue dashed box highlights the 'VOICE' column and the '1/1/1' address, with a callout stating 'SUPPORTED ITEMS IN RGBW WIDGETS FOR VOICE CONTROL / MATTER BRIDGE'.

FUNCTIONALITY	VOICE COMMAND	FEEDBACK	WRITE	STATE
ON/OFF	1/1/1		✓	On
RGBW - Red			✓	0%
RGBW - Green			✓	0%
RGBW - Blue			✓	0%
RGBW - White			✓	0%
Intensity dimmer			✓	0%
HSV - Hue	1/1/2		✓	
HSV - Saturation	1/1/3		✓	100%
HSV - Value	1/1/4		✓	70%
HSV				
RGB				

SUPPORTED ITEMS IN RGBW WIDGETS
FOR VOICE CONTROL / MATTER BRIDGE

In the following paragraphs the complete list of supported widgets is listed, with the details of the items interested in the MATTER BRIDGE.

Some of those items are necessary, others are optional: if they miss, the corresponding functionality is not available in MATTER. An example is the white temperature in a dimmer: if not associated to a KNX address, it is simply not exposed to MATTER, and only the brightness level (and the ON/OFF) is possible.

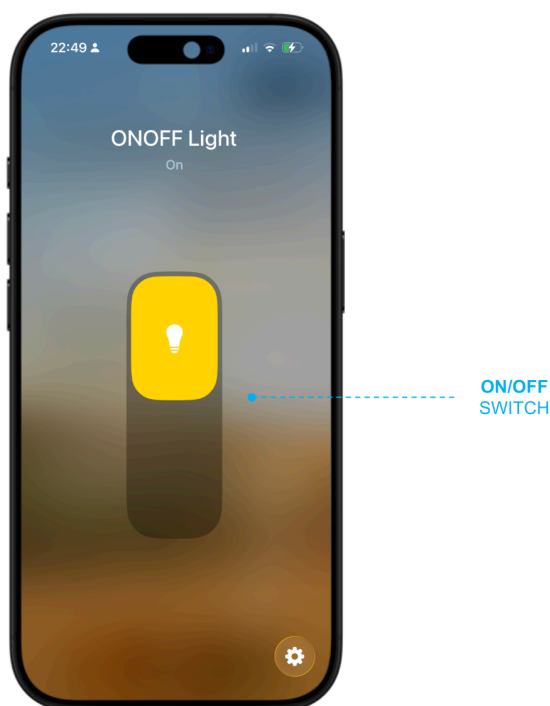
3.5.2 Lighting

ON/OFF LIGHT

Supported items in MATTER:

WIDGET ITEM	OPTIONAL	DESCRIPTION
GENERIC (ON/OFF)		ON/OFF switch of the light <i>Typically set by "tapping" on the light symbol</i>

Example of visualisation in APPLE HOME app:

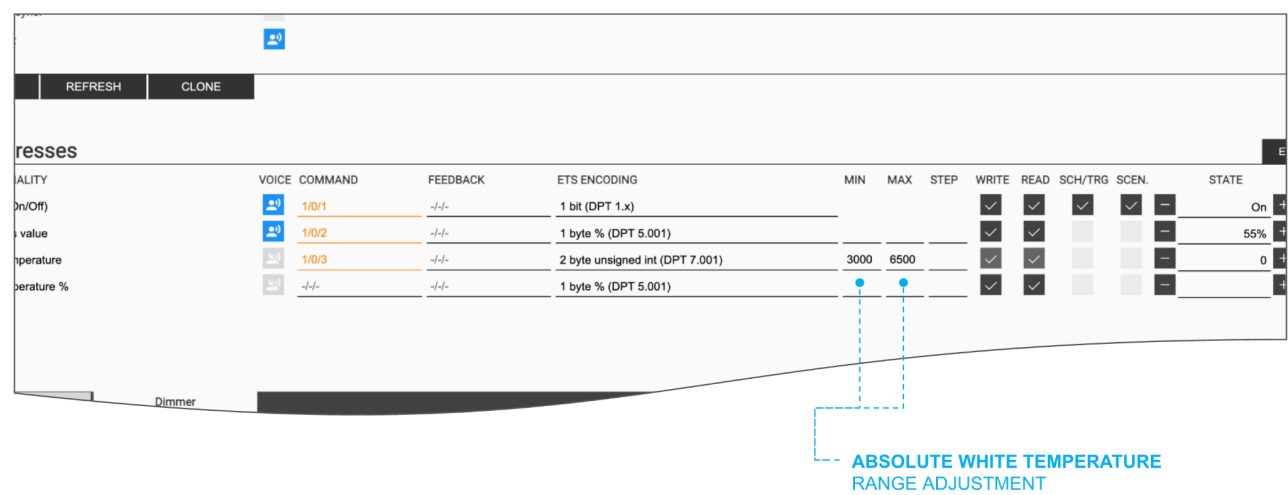


DIMMER

Supported items in MATTER:

WIDGET ITEM	OPTIONAL	DESCRIPTION
GENERIC (ON/OFF)		ON/OFF switch of the light <i>Typically set by "tapping" on the light symbol</i>
BRIGHTNESS VALUE		Brightness level of the light <i>Typically adjusted by sliding on the light control</i>
COLOUR TEMPERATURE COLOUR TEMPERATURE (%)	✓	The temperature of the white light between cold and warm. Can be expressed in absolute value (°K) or as a percent between full warm (0%) and full cold (100%); only one of the two methods is expected (if both are present, the absolute value is used).

In case of absolute value for the colour temperature, it is possible to specify the temperature range (in °K) by enabling the EXPERT MODE and entering the minimum and maximum values in the MIN / MAX columns respectively, as in the following example:



Example of visualisation in APPLE HOME app:



RGBW

Supported items in MATTER:

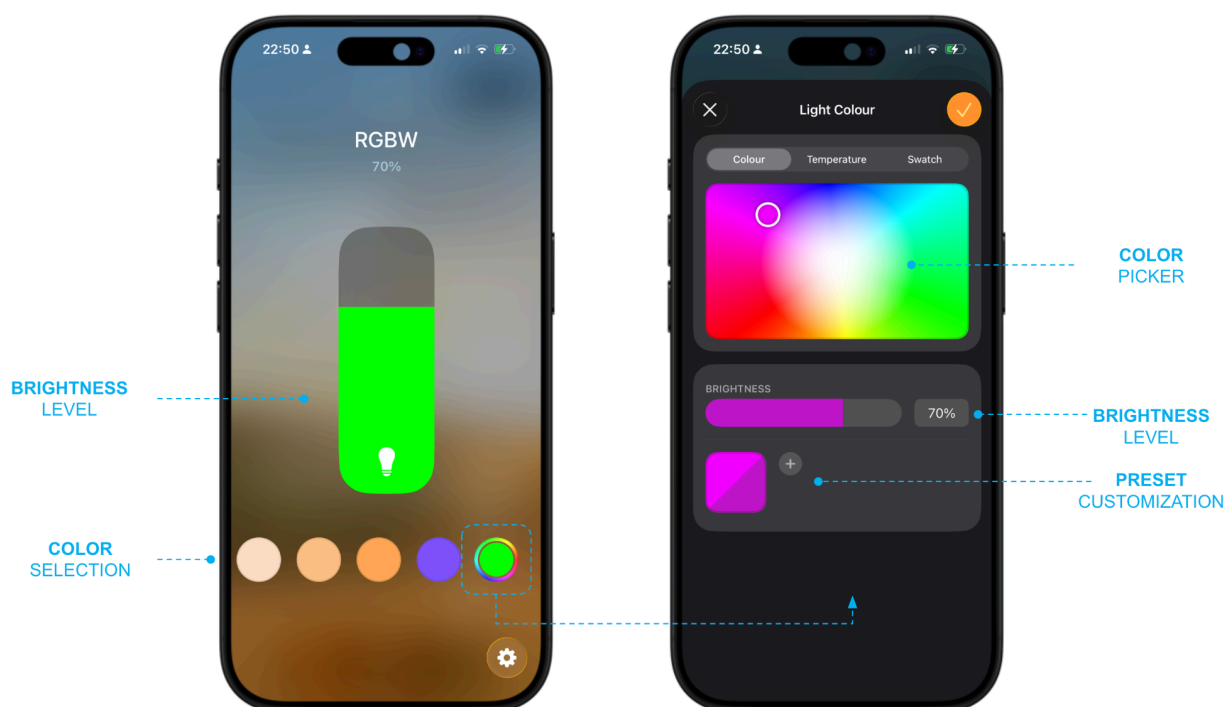
WIDGET ITEM	OPTIONAL	DESCRIPTION
ON/OFF		ON/OFF switch of the light

		<i>Typically set by "tapping" on the light symbol</i>
HSV - HUE HSV - SATURATION		Components of the colour. <i>Typically set by entering the details and choosing a different colour and saturation to the white</i>
HSV - VALUE		Light brightness <i>Typically set by moving the intensity slider</i>



For compatibility reasons it is necessary to avoid configuring the item called "INTENSITY DIMMER", being the brightness already associated with the "HSV - VALUE"

Example of visualisation in APPLE HOME app:



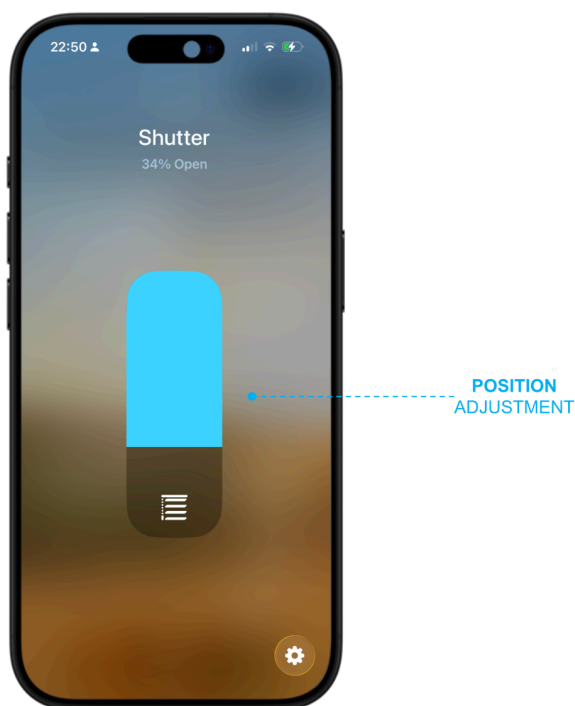
3.5.3 Motorizations

SHUTTER (WITH PERCENT POSITION)

Supported items in MATTER:

WIDGET ITEM	OPTIONAL	DESCRIPTION
MOVEMENT (UP/DOWN)		Command to start moving in the UP or DOWN direction. <i>Typically associated to UP and DOWN buttons if present in the MATTER app; not available in Apple Home</i>
PERCENT VALUE		Absolute position of the shutter <i>Typically associated with the shutter slider</i>

Example of visualisation in APPLE HOME app:

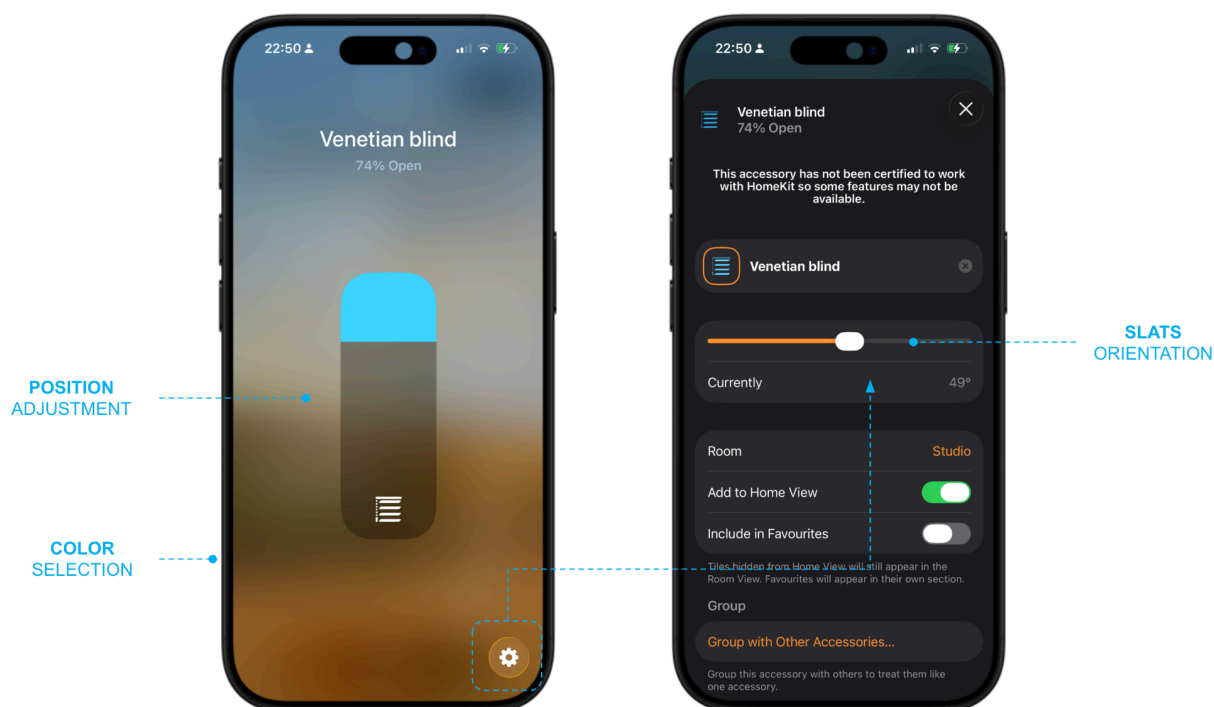


VENETIAN BLIND

Supported items in MATTER:

WIDGET ITEM	OPTIONAL	DESCRIPTION
MOVEMENT (UP/DOWN)		Command to start moving in the UP or DOWN direction. <i>Typically associated to UP and DOWN buttons if present in the MATTER app; not available in Apple Home</i>
PERCENT VALUE		Absolute position of the shutter <i>Typically associated with the shutter slider</i>
SLATS ORIENTATION	✓	Angle degree of orientation of the slats <i>Typically represented as a secondary slider when available in the MATTER app</i>

Example of visualisation in APPLE HOME app:



3.5.4 HVAC

THERMOSTAT

Supported items in MATTER:

WIDGET ITEM	OPTIONAL	DESCRIPTION
MEASURED TEMPERATURE		Temperature measured by the thermostat.
THERMOSTAT ON/OFF	✓	Activation or deactivation of the thermostat <i>Typically associated with the OFF mode</i>
SETPOINT - MANUAL		Desired temperature level
HEATING / COOLING		Switchover between the two conduction systems <i>Typically associated respectively to the HEAT and COOL mode</i>
VENTILATION SPEED VENTILATION SPEED (%)	✓	Manual assignment of the fan speed <i>Typically represented as a slider. In case of discrete speeds, the slider positioning will be rounded to the nearest option.</i> NOTE: only one of the two items is expected (if both are present, the percent value is used).

Example of visualisation in APPLE HOME app:



AIR CONDITIONING UNIT

Supported items in MATTER:

WIDGET ITEM	OPTIONAL	DESCRIPTION
MEASURED TEMPERATURE		Temperature measured by the thermostat.
THERMOSTAT ON/OFF	✓	Activation or deactivation of the thermostat <i>Typically associated with the OFF mode</i>
COOLING MODE		AC unit operating mode <i>Typically associated with the HEAT and COOL modes in the MATTER apps</i>
SETPOINT - MANUAL		Desired temperature level
VENTILATION SPEED VENTILATION SPEED (%)	✓	Manual assignment of the fan speed <i>Typically represented as a slider. In case of discrete speeds, the slider positioning will be rounded to the nearest option.</i> NOTE: only one of the two items is expected (if both are present, the percent value is used).
SWING	✓	Automatic oscillation of the slats

Example of visualisation in APPLE HOME app:





Due to some ecosystem apps, like APPLE HOME, the fan speed control for the THERMOSTAT and the AC UNIT is rendered as a separate widget

4 Revision history

The following table contains the most relevant changes in the software releases, concerning the topics of this application manual:

Release	Changes	Date
2.7.0	First release supporting the MATTER standard	01/09/2025
2.8.0	Added support for the MATTER BRIDGE functionality	15/04/2026