

# Qeedji

User manual

SMA300

4.13.15 002C



## Legal notice

### SMA300 4.13.15 (002C\_en)

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#### Product information

Product design and specifications are subject to change at any time and `Qeedji` reserves the right to modify them without notice. This includes the hardware, the embedded software and this manual, which should be considered as a general guide to the product. The accessories supplied with the product may differ slightly from those described in this manual, depending on the developments of the various suppliers.

#### Precautions for use

Please read and heed the following warnings before turning on the power: - installation and maintenance must be carried out by professionals. - do not use the device near water. - do not place anything on top of the device, including liquids (beverages) or flammable materials (fabrics, paper). - do not expose the device to direct sunlight, near a heat source, or in a place susceptible to dust, vibration or shock.

#### Warranty clauses

The `Qeedji` device is guaranteed against material and manufacturing defects for a certain duration. Check the device warranty duration value at the end of the document. These warranty conditions do not apply if the failure is the result of improper use of the device, inappropriate maintenance, unauthorized modification, operation in an unspecified environment (see operating precautions at the beginning of the manual) or if the device has been damaged by shock or fall, incorrect operation, improper connection, lightning, insufficient protection against heat, humidity or frost.

#### WEEE Directive



This symbol means that your appliance at the end of its service life must not be disposed of with household waste, but must be taken to a collection point for waste electrical and electronic equipment or returned to your dealer. Your action will protect the environment. In this context, a collection and recycling system has been set up by the European Union

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# Part I

## Description and installation

## 1.1 Introduction

This manual explains how to install and configure your SMA300 device.

### Recommendations and warnings

This device is designed to be used indoors.

This device is intended to work with the power supply unit. This power supply unit must be connected to a mains socket conforming to standard NF C 15-100. If the AC power cable is damaged, it must be replaced. It is possible to order a power supply unit replacement by sending a request to the email address [sales@qeedji.tech](mailto:sales@qeedji.tech).

This device is a Class A device. In a residential environment, this device may cause radio interference. In this case, the user is asked to take appropriate measures.

When powering the device from a PoE source, this PoE source must be "Limited Power Source" as defined in EN60950-1: 2006.

### Content of the package

Items	Description	Quantity
Device	SMA300 device with Gekkota embedded.	1
Power supply unit	12 V power supply unit with cable of 1.2 m.	1
Labels	One on the cardboard packaging and another one at the back of the product. <i>Additional label can be present in case build-in options.</i>	2
WLAN antenna	To be screwed on the dedicated WLAN locations. <i>Provided with the device when it is supporting the <i>WLAN</i> option.</i>	1
WWAN antenna	To be screwed on the dedicated WWAN locations. <i>Provided with the device when it is supporting the <i>WWAN</i> option.</i>	1

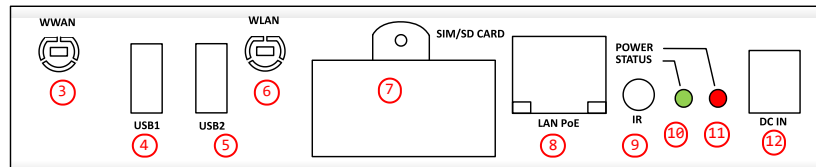
## 1.2 Getting started with the device

### Device front face



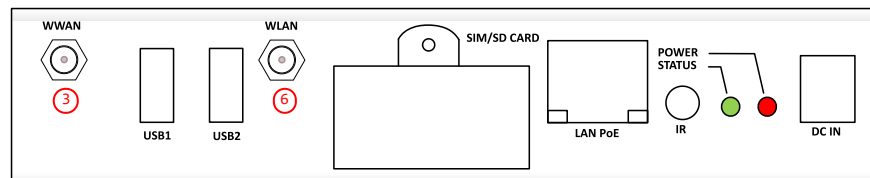
- ① HDMI output connector,
- ② Audio connector.

### Device rear face



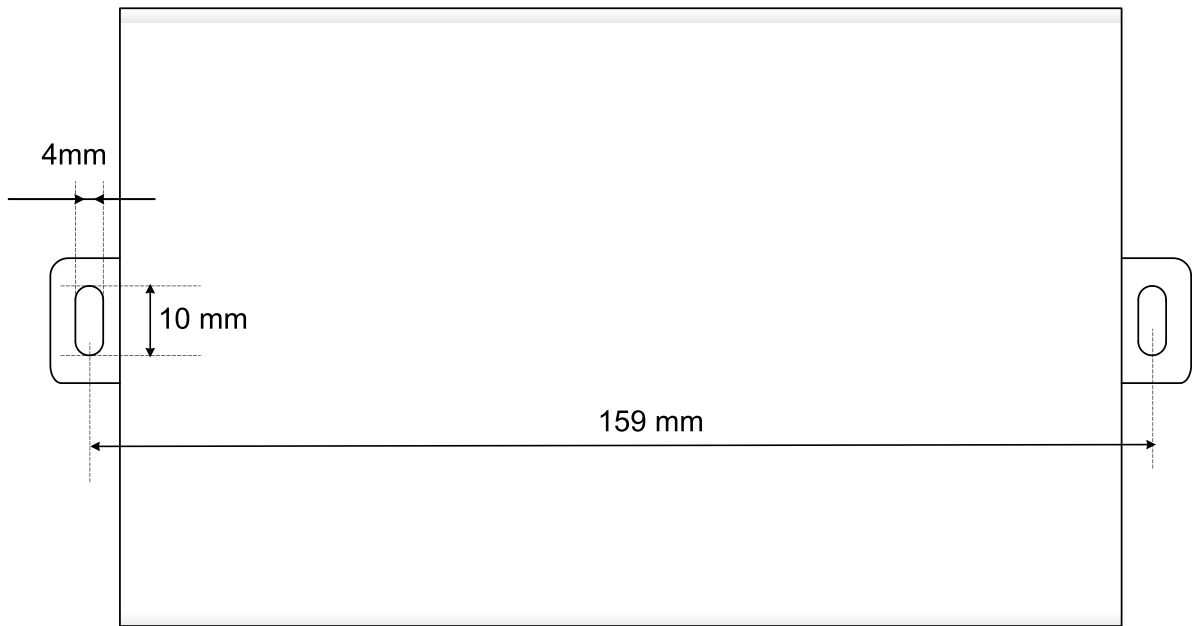
- ③ WWAN antenna slot,
- ④ USB1 2.0 Host connector,
- ⑤ USB2 2.0 Host connector,
- ⑥ WLAN antenna slot,
- ⑦ SIM & SD Card connector,
- ⑧ LAN PoE RJ45 connector,
- ⑨ GPIO1/IR connector,
- ⑩ Status green LED,
- ⑪ Power supply red LED,
- ⑫ Power supply connector.

### Device rear face having the WLAN and WWAN options

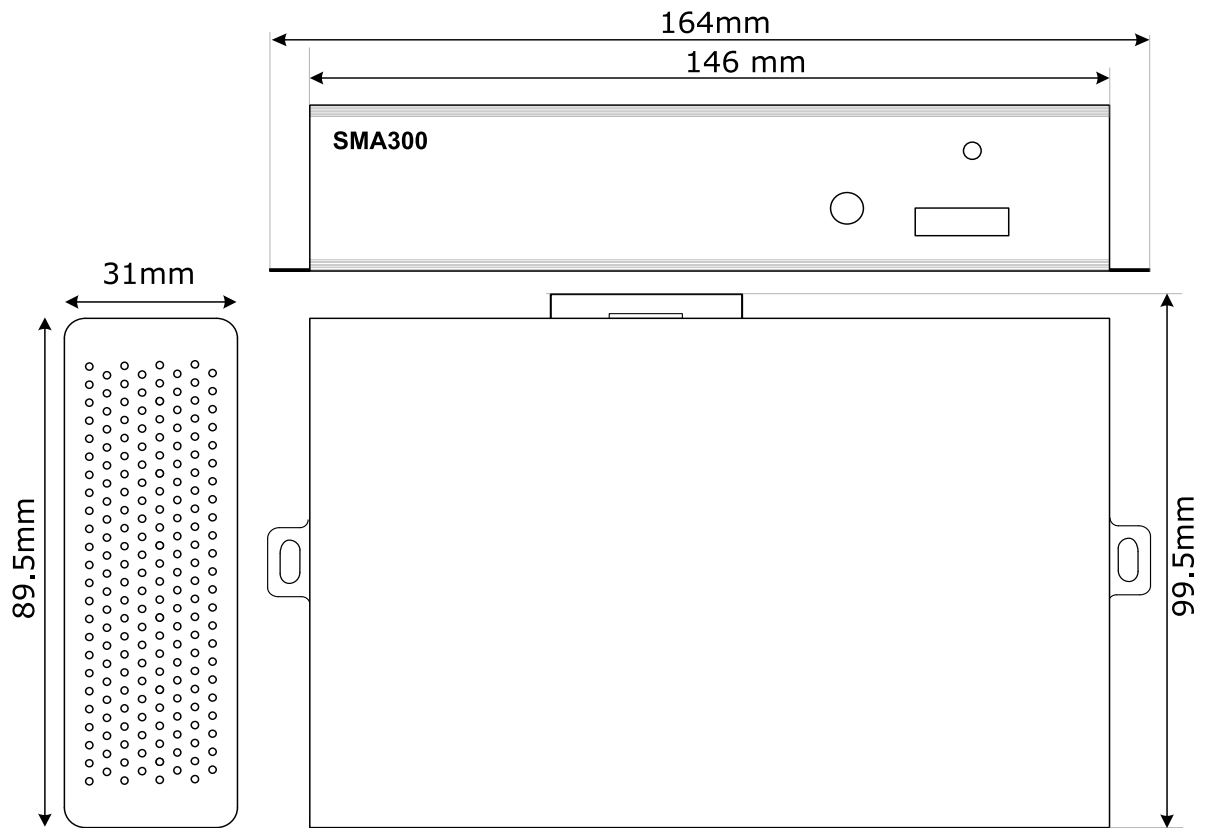


- ③ WWAN antenna screwing location,
- ⑥ WLAN antenna screwing location.

## 1.2.1 Device fixture



## 1.2.2 Device dimensions

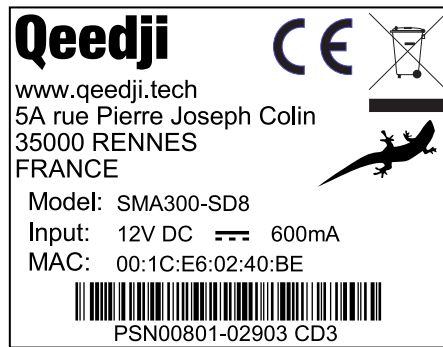




## 1.2.3 Labelling

### Product label

The model of the device, the power supply characteristics, the serial number (PSN) and the MAC address are written on a label stuck on the case.



### Packingbox label

This is the label stuck also on the packingbox. It is showing information on:

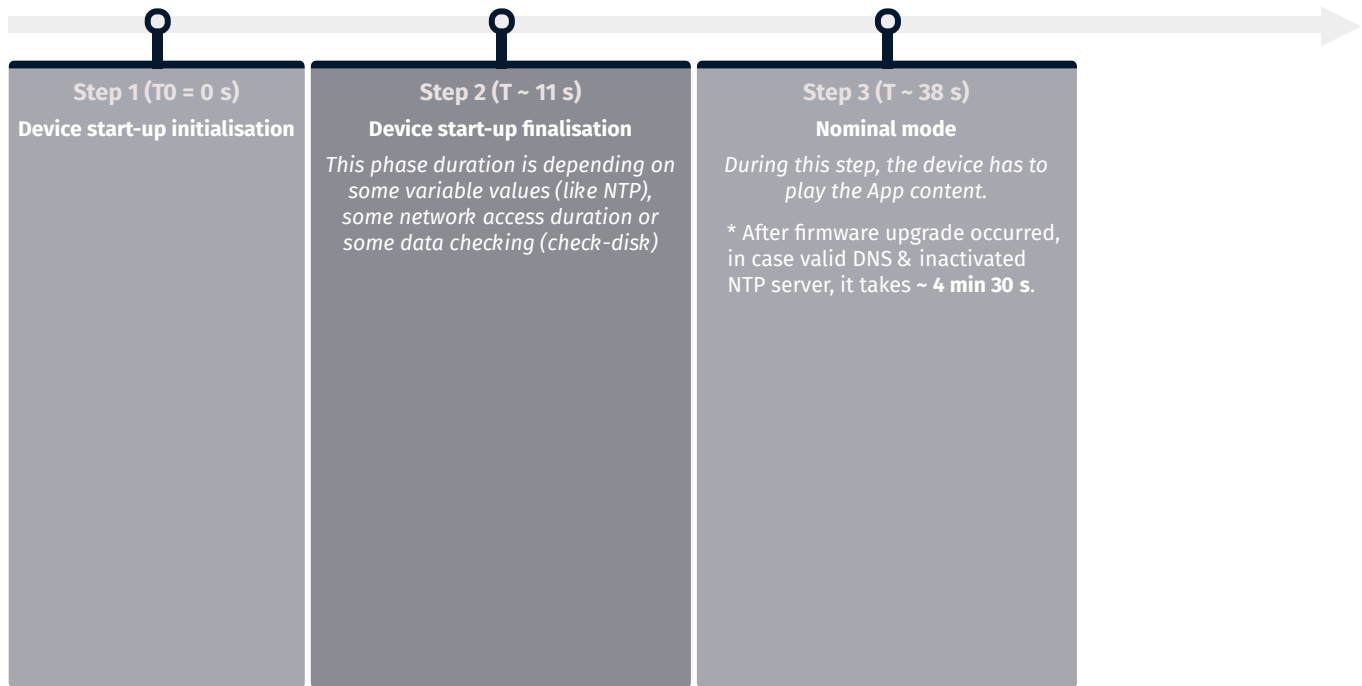
- the device model,
- the serial number (PSN).



Some additional labels may be present in case of built-in options.

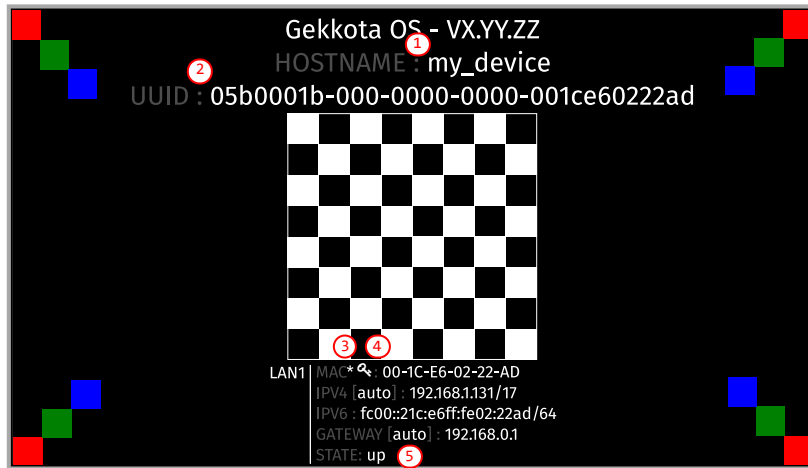
- ▮ *The serial number of the device could be requested in case of technical support.*

## 1.2.4 Device start-up step



## 1.2.5 Test card

At the factory, the device content set by default is the `Test Card`. The chart displays important information to assist in the device configuration:



- ▮ The \* star pictogram is showing the chosen identification method in the device. It can be `HOSTNAME` (1), `UUID` (2) or `MAC` (3). In the example, the star is showing the `MAC` identification method (default value).
- ▮ The key pictogram (4) is showing the MAC address value associated to the Gekkota license key.
- ▮ The `up` STATE (5) is meaning that the network interface currently showed is alive. If the STATE is `down`, the network interface is not alive.

The `Test Card` can be inactivated by using the `Administration console` user interface.

If the CEC is activated on your screen, and the CEC pass-through feature is fully supported, the test card can be activated or inactivated thanks to the screen remote control with the key combination [left, right, left, right] pressed in less than 10 seconds.

### 1.3 LEDs behaviour

#### LED POWER behaviour (power on device)

State	Information
Red	<b>OK: Power supplied</b>
Off	<b>Error: Power supply issue <sup>1</sup></b>

#### LED LAN behaviour (power on device)

State	Information
Off	There is no network traffic on the Ethernet connector.
Blinking	The blinking frequency is indicating the data rate on Ethernet connector.

#### LED STATUS behaviour depending on device start-up steps

##### • Step 1: Device start-up initialisation

State	Information
Green: continuous	<b>OK</b>
Always Off	<b>Error: Power supply issue <sup>1</sup></b>

##### • Step 2: Device start-up finalisation

State	Information
Off	<b>OK.</b> This step duration can be from several seconds to several minutes.
Green blinking: 1 second duration flash and periodicity every 2 seconds	<b>Error: Boot issue <sup>1</sup></b>

• **Step 3: Nominal mode**

State	Information
Green blinking: <b>1</b> very short flash (300 ms) spaced 4 seconds apart	<b>OK</b>
Green blinking: <b>2</b> very short and consecutive flashes (300 ms) spaced 4 seconds apart	<p><b>Warning: Fail Soft Mode Level 1</b>            Frequent device reboot detected (for example 4 times in less than ½ hour)            Message is displayed on the screen: «Fail Soft Mode: waiting for new content ».            The instability has been caused probably by a content media not supported yet by the Gekkota OS. Consequently, to prevent any further reboot, the content has been invalidated. The message displayed on the screen indicates that a new publication is needed to go ahead. <sup>2</sup></p>
Green blinking: <b>3</b> very short and consecutive flashes (300 ms) spaced 4 seconds apart	<p><b>Warning: Fail Soft Mode Level 2</b>            Frequent device reboot detected (for example 4 times in less than ½ hour)            Content is purged            Message is displayed on the screen «Fail Soft Mode: waiting for new content ».            The instability has been caused probably by a content not supported yet by system or one user preference which has been modified. Consequently, to prevent any further reboot, the content has been invalidated and user preferences (saved before unexpected reboot) have been restored. The message displayed on the screen indicates that a new publication is needed to go ahead. <sup>2</sup></p>
Green blinking: <b>4</b> very short and consecutive flashes (300 ms) spaced 4 seconds apart	<p><b>Warning: Check disk</b>            The device has detected memory corruption on content storage. The media storage is being repaired. This repair step is called Check-Disk and its duration can be several minutes. During this step, a message “checking the file system of data partition in progress” is displayed on the screen. <sup>3</sup></p>
Green blinking: <b>5</b> very short and consecutive flashes (300 ms) spaced 4 seconds apart	<p><b>Warning: errors on system partition</b>            The user has to connect to device Web user interface, go to <i>Maintenance</i> &gt; <i>Tools</i> menu, and click on the <i>Format</i> or <i>Repair</i> button to solve the problem. <sup>3</sup></p>
Green blinking: <b>6</b> very short and consecutive flashes (300 ms) spaced 4 seconds apart	<p><b>Warning: a firmware upgrade is pending</b>            During this phase, no content is played on the device, <b>do not switch OFF the device.</b></p>
Green blinking: <b>7</b> very short and consecutive flashes (300 ms) spaced 4 seconds apart	<p><b>Error: write problem on the storage</b>            For an unknown reason, your storage space isn't usable any more. <sup>3</sup></p>
Off	<b>Error.</b> <sup>1</sup>

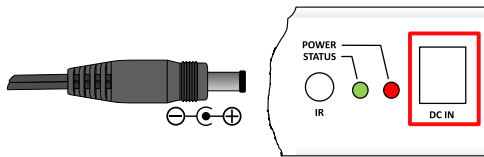
<sup>1</sup> If the problem persists in despite of an appropriate power-supply, contact [support@qeedji.tech](mailto:support@qeedji.tech).

<sup>2</sup> If the problem persists, it is recommended to find out the media not supported yet by the system and remove it from content.

<sup>3</sup> If the problem persists after a partition repairing, contact [support@qeedji.tech](mailto:support@qeedji.tech).

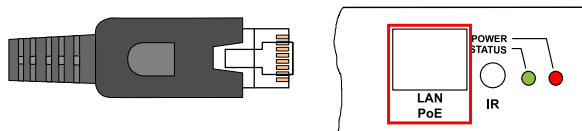
## 1.4 Connectors pin-out

### Power supply connector (12 V DC - 0.6 A)



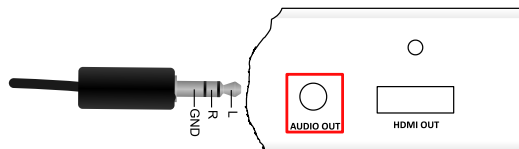
### LAN connector

Ethernet RJ-45 PoE. 10/100 BaseT. It is recommended to use shielded cables.

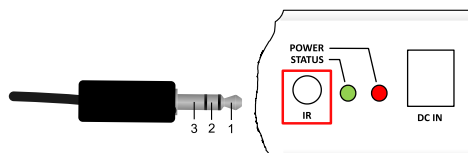


### Audio Jack 3.5 mm connector (stereo L+R)

It is recommended to use cables whose length is less than 3 meters.



### Jack 3.5 mm connector (GPIO1/IR)



N°	Name	Write/ Read	Control
1	Voltage reference 3.3 V		
2	GPIO1	IN or OUT	CPU/GPIO1
3	Ground		

### Electrical features

	V <sub>in min</sub>	V <sub>in max</sub>	VOH min	VOH max	IOH max	VOL max	IOL max	VIH min	VIL max
GPIO1	-0.5 V	3.8 V	3.1 V (@ 20 µA)	3.3 V	-100 A	0.6 V (@ 2 mA)	5 mA	2.35 V	0.8 V

The 3.3 V pin must not be used as a power supply, but rather as a reference voltage. It has a rearmable fuse (350 mA @ 20 °C)

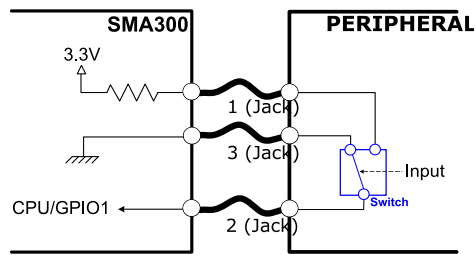
It is not recommended to hotplug/unplug GPIO1 connector, it could provoke a failure of the device.

Along the device booting, the GPIO1 is configured as input during some seconds. And then after the system startup, the GPIO1 is operational.

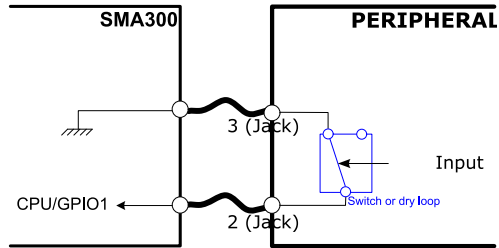
The GPIO has a pull-up (4.7 KOhms on 3.3 V).

### Principle schematics for several use cases

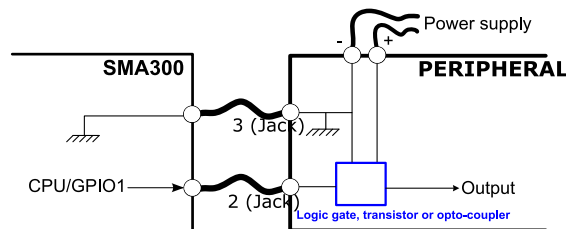
Three wires input configuration for GPIO1:



Two wires configuration for GPIO1:



Output configuration for GPIO1:



## Configuration

GPIO1 connector configuration can be done through system preferences edition with device Web user interface or with a configuration script. The GPIO1 configuration part for this script is described here:

How to configure the Jack 3.5 mm connector:

```
//Set Jack 3.5 mm mode infrared
if (aDirection == "disable")
{
  Services.prefs.setBoolPref("system.connector.jack35_1.1.io.uart_1.enabled", true);
}
else //Set Jack 3.5 mm mode GPIO
{
  Services.prefs.setBoolPref("system.connector.jack35_1.1.io.uart_1.enabled", false);
}

// Set the Jack 3.5 mm direction: input or output
if (aDirection == "out")
{
  Services.prefs.setBoolPref("innes.app-profile.gpio-input.jack35-gpio_1.jack35_1.*.authorized", false);
  Services.prefs.setBoolPref("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", true);
  Services.prefs.setBoolPref("system.connector.jack35_1.1.io.jack35-gpio_1.enabled", true);
}
else if (aDirection == "in")
{
  Services.prefs.setBoolPref("innes.app-profile.gpio-input.jack35-gpio_1.jack35_1.*.authorized", true);
  Services.prefs.setBoolPref("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", false);
  Services.prefs.setBoolPref("system.connector.jack35_1.1.io.jack35-gpio_1.enabled", true);
}
else if (aDirection == "disable")
{
  Services.prefs.setBoolPref("innes.app-profile.gpio-input.jack35-gpio_1.jack35_1.*.authorized", false);
  Services.prefs.setBoolPref("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", false);
  Services.prefs.setBoolPref("system.connector.jack35_1.1.io.jack35-gpio_1.enabled", false);
}
}
```

# Part II

## Applicative user interface



## 2.1 Applicative user interface

The SMA300 device has a Web user interface that can be accessed with a Web browser. The supported browsers are: Google Chrome , Mozilla Firefox , MS-Edge and MS-Edge (Chromium) .

It is accessible from the URL: `http://<device_IP_addr>/` .

By default, the login credentials for the device Web user interface are:

- login: `admin` ,
- password: `admin` .

The URL falls automatically into the applicative user interface: `http://<device_IP_addr>/.playlist/` . This pane allows to watch the App content:



### WebDAV directories

Clicking on the parent directory provides access to the root of the device's WebDAV server, which provides access to directories, among other things:

- `.playlog/` : location to store data for mediametry,
- `.resources/` : location to store the resources of the device Web user interface,
- `.software/` : location to store `.frm` middleware for updates,
- `.status/` : location to store the device status file `status.xml` ,
- `.upnp/` : location to store `device.xml` device status for upnp detection,
- `.assets/` : location to store some of the resources of the device Web user interface,
- `.playlist/` : location to store the App when deployed on the device,
- `.log/` : location to store the application logs, when they are activated.

# Part III | Administration console user interface

## 3.1 Administration console user interface

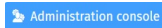
The SMA300 device has a Web user interface that can be accessed with a Web browser. The supported browsers are: Google Chrome , Mozilla Firefox , MS-Edge and MS-Edge (Chromium) .

It is accessible from the URL: `http://<device_IP_addr>/` .


By default, the login credentials for the device Web user interface are:

- login: `admin` ,
- password: `admin` .

The URL falls automatically into the applicative user interface<sup>1</sup>. At the top right corner, click on the `Administration Console` button.



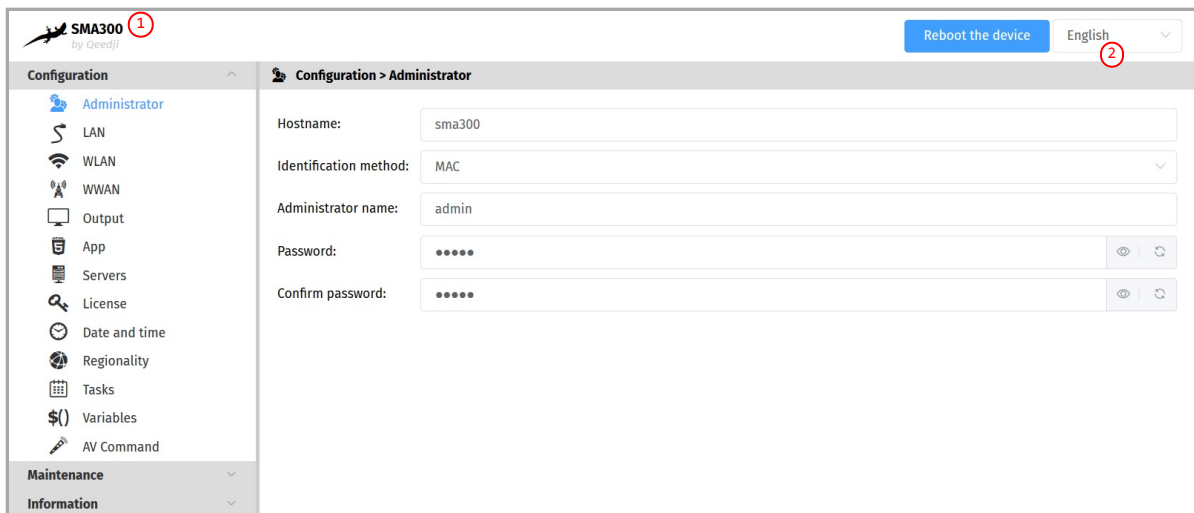
<sup>1</sup> For further information, refer to the chapter § [Applicative user interface](#).



With the button at the top right corner , choose the language in which your device Web user interface needs to be displayed. The supported languages are:


- *English*,
- *Spanish*,
- *German*,
- *French*.


 It is desirable that your device SMA300 device is on time. When possible, do synchronize it with an NTP server.

This is the `Administration console` user interface.



 After you have changed and saved all your settings in the different panes, be sure to perform a device restart by clicking on the `Reboot the device`  button so that your changes are fully reflected.

Click on the device logo  at the left top corner to return to the applicative user interface.

 If the device does not respond to its IP address, either the device power supply is unplugged, or the Ethernet cable is not connected, or the network configuration is not properly adjusted. To solve the problem, if your computer and local network supports IPV6, connect an Ethernet cable on the device and connect to the device Web user interface with its IPV6 address, which can be found on the test pattern displayed on the screen.

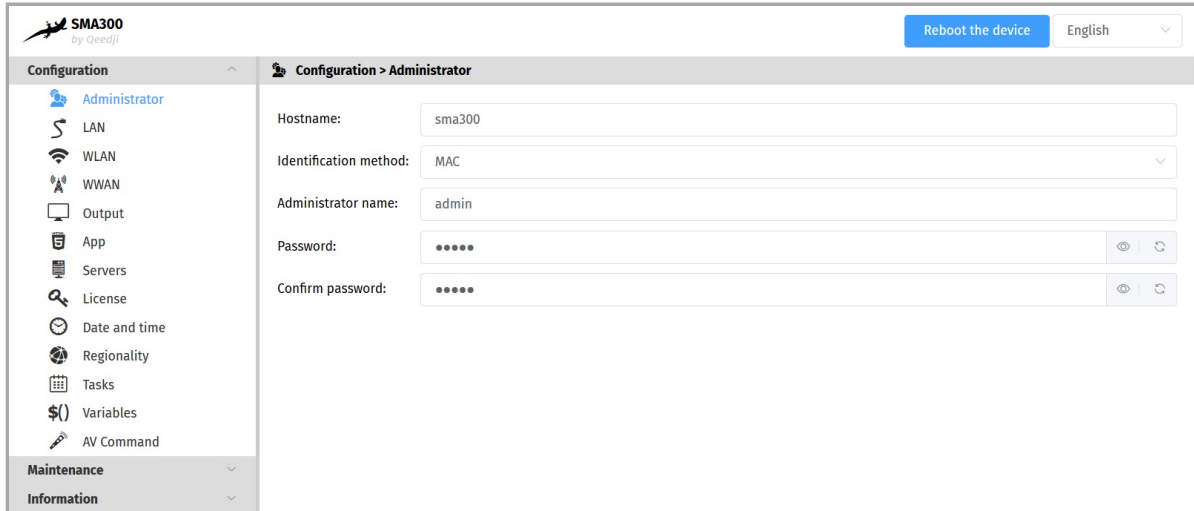
For example, for the MAC address value: ``00-1c-e6-02-1e-45`,  
In a Web browser, enter the URL: `http://[fc00::21c:e6ff:fe02:1e45]/.admin/`

To obtain the application note reminding some notions about IPV6 configuration, refer to the appropriate application note on the [Qeedji Web site](#).

### 3.1.1 Configuration > Administrator

In the **Configuration** pane, select the **Administrator** menu to change:

- the hostname,
- the login credentials,
- the device identification method:
  - MAC (default),
  - Hostname ,
  - UUID .



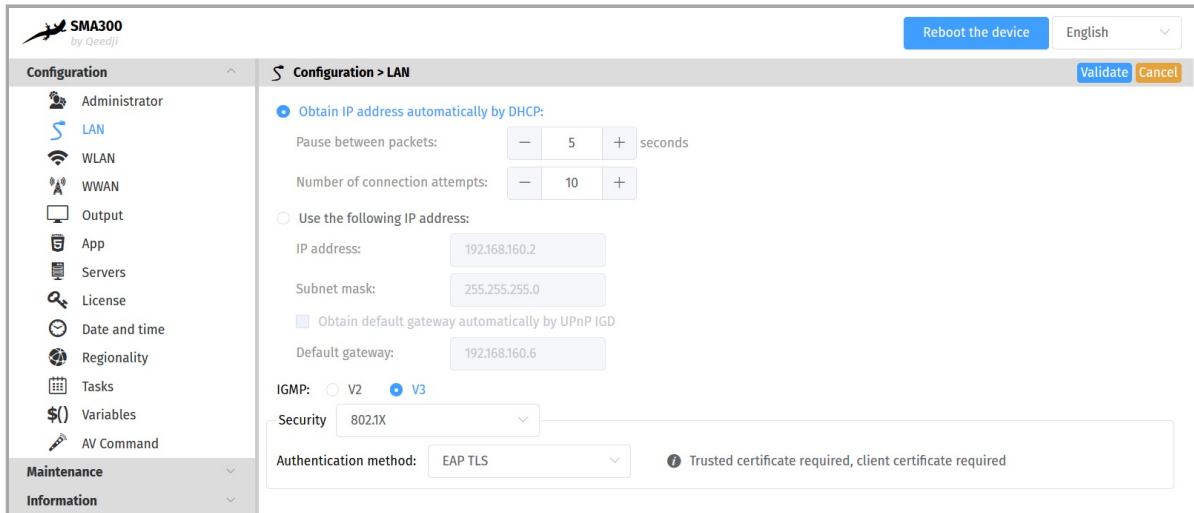
For security reasons, it may be useful to change the login credentials to access to the device's Web user interface. Please keep these login credentials in a safe place afterwards.

*The same login credentials are used to access to the WebDAV server.*

It is recommended that you enter one unique **Hostname** value for each device. In case several SMA300 devices are located in different buildings or geographical locations, we recommend that you enter hostname values with information about the building and the location (e.g. `Hall-RD-Paris-1`).

## 3.1.2 Configuration > LAN

In the Configuration pane, select the LAN menu to set up the network configuration of the LAN interface of your device.



If your device is not located in a secure network, select:

- security: None.

If your device is located and properly declared in a secure network, select 802.1X, then select an 802.1X authentication method supported by your RADIUS server:

- security: 802.1x.

▮ In the context of a secure network, your device must be first declared in your dedicated RADIUS server with a user *login / password*. Given that the login credentials used by Qeedji devices for all the 802.1X authentication methods are the LAN MAC address value of the SMA300 device, any new Qeedji device entry must be registered in your RADIUS server with these specific values with the format *aabbccddeeff / aabbccddeeff* for a MAC address AA-BB-CC-DD-EE-FF. Some *identification methods* may require you add a *trusted certificate*, used by your RADIUS server and/or a *client certificate*, generated with the MAC address of your device, the radius users credentials and the trusted certificate of the RADIUS server; For further information, please contact your IT department.

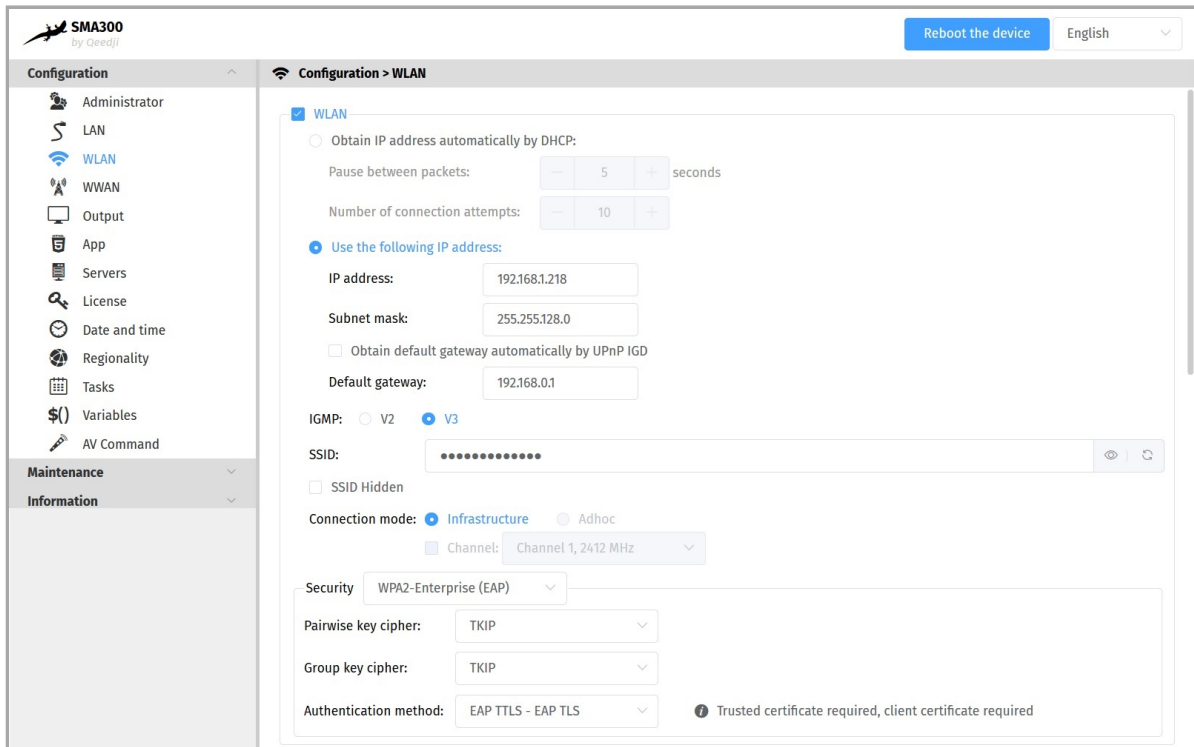
▮ When using a 802.1X certificate with an expiration date, in case your device is not on time or when the expiration date has expired, the device is not able to access to the network anymore. To work around, you have to insert one USB stick containing a specific configuration script to set either a new certificate or update the device date and time.

▮ By default, the device is configured with DHCP activated. In case the DHCP server is not available, after the DHCP timeout, the device ends up using the static IP address whose default value is 192.168.0.2 when it has not been changed yet by the end user.

### 3.1.3 Configuration > WLAN

From the Configuration pane, select the **WLAN** menu to set up the network configuration of the **WLAN** interface on your device.

▮ The **WLAN** menu is only displayed when the **WLAN** option is supported by your device.



- **Connection mode :**
  - **Infrastructure :** Allows to establish a WIFI connection between your device and a WIFI router:
    - **Security :**
      - **None,**
      - **WEP,**
      - **WPA-Personal (PSK),**
      - **WPA2-Personal (PSK),**
      - **WPA-Enterprise (EAP),**
      - **WPA2-Enterprise (EAP).**
  - **Adhoc :** Allows to establish a direct WIFI connection between your device and e.g. your computer, without using a router.
    - **Security :**
      - **None,**
      - **WEP.**

The **SSID Hidden** option tells to the device whether or not the SSID value is broadcasted over the network by your WIFI router. It also allows to deduce the subset of **pair key encryption** and **group key encryption** modes supported.

The maximum lengths for WLAN crypto keys are:

- for **WEP** key:
  - 26 hexadecimal characters max.
- for **WPA-Personal (PSK)** and **WPA2-Personal (PSK)** keys:
  - 63 ASCII characters max.

▮ **TKIP** pair (or group) key encryption is not supported if the router is in **IEEE 802.11n** mode.

▮ Some computer OS version may not support **Adhoc** connection. For further information, contact your IT department.

▮ \*Selecting the **WPA-Enterprise (EAP)** or **WPA2-Enterprise (EAP)** security implies that your device is located in a secure network, and therefore connects to a properly configured WIFI router with a dedicated **RADIUS** server.

▮ In the context of a secure network, your device must be first declared in your dedicated **RADIUS** server with a user **Login / password**. Given that the login credentials used by Qeedji devices for all the **802.1X** authentication methods are the LAN MAC address value of the SMA300 device, any new Qeedji device entry must be registered in your **RADIUS** server with these specific values with the format **aabbccddeeff / aabbccddeeff** for a MAC address **AA-BB-CC-DD-EE-FF**. Some **identification** methods may require you add a **trusted certificate**, used by your **RADIUS** server and/or a **client certificate**, generated with the MAC address of your device, the radius users credentials and the trusted certificate of the **RADIUS** server; For further information, please contact your IT department.

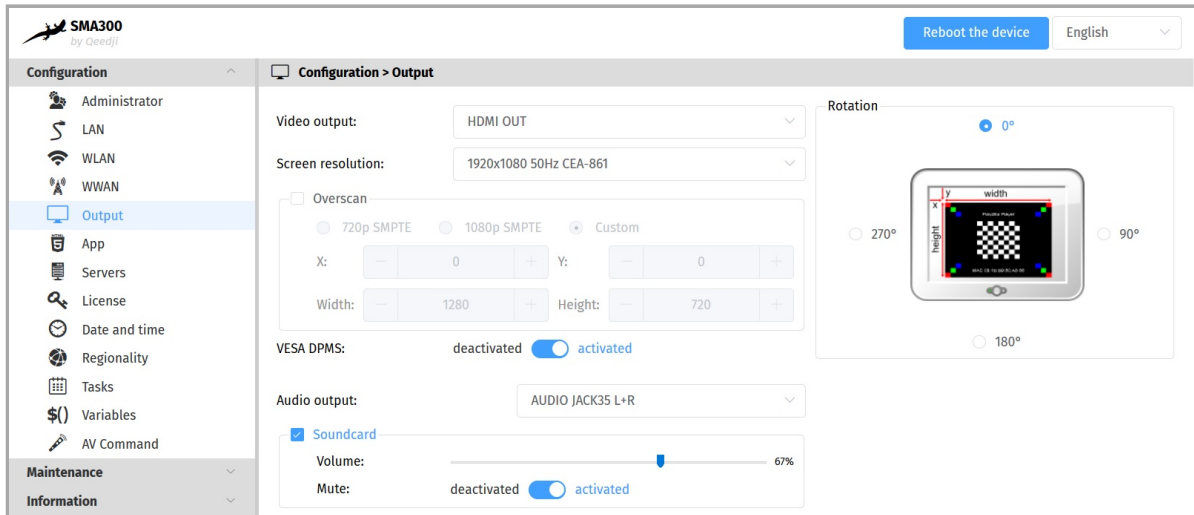
The **WLAN** interface is not checked by default.

▮ With some devices, if the **Pair Encryption Key** or **Group Encryption Key** is not the same as the WIFI router's, the **WLAN** interface may disappear for a while during an automatic restart of the **WLAN** driver.

▮ In **WLAN** configuration, it is recommended that the device has a daily device reboot task.

## 3.1.4 Configuration > Output

From the Configuration pane, select the **Output** menu to configure, among other things, the device's video and audio output.



- Video output : **HDMI OUT**,
- Screen resolution :
  - Resolution : 96x96 to 1920x1080,
  - Mode . SMPTE, VESA, CEA-861, SONY, SAMSUNG, CGV CPLine AV-HD, PC, DENSITRON, XGA, ...
  - Frequency : 60 Hz, 50 Hz,
- Overscan : - 720p SMPTE, - 1080p SMPTE, - Personalized: - x : horizontal origin of the viewport in pixel, - y : vertical origin of the viewport in pixel, - Width : width of the viewport in pixel, - Height : height of the viewport in pixel.
- Rotation : 0°, 90°, 180°, 270°.
- VESA DPMS : on (vertical sync standby supported) or off (vertical sync standby not supported).
- Audio output : **AUDIO JACK35 L+R**,
- option Sound card : allows to activate or deactivate the sound card.
  - Volume : 0..100%.
  - option Mute : on (mute) or off (mute on).

▮ For the special case of scrolling text overlay, please do not exceed an area for scrolling text greater than 20% of your screen height.

▮ Warning: some screens may not support certain display modes. In this case, try another mode with the same resolution.

▮ When it is supported by your screen and device, if possible use a 60 Hz mode which is the smoothest mode.

Some screen, due to their construction, have been designed with an overscan, which means that the edges of your broadcast content on your device may not be visible on your screen even when choosing the right optimal resolution for your screen. To alleviate this problem, use the overscan on your Qeedji device to slightly reduce the width and height of your viewport. While doing so, it is recommended to display the test pattern of the device.

⚠ When using the overscan, for a good configuration of your device, please make sure that your screen is not in Wall , Mozaic or Tile mode.

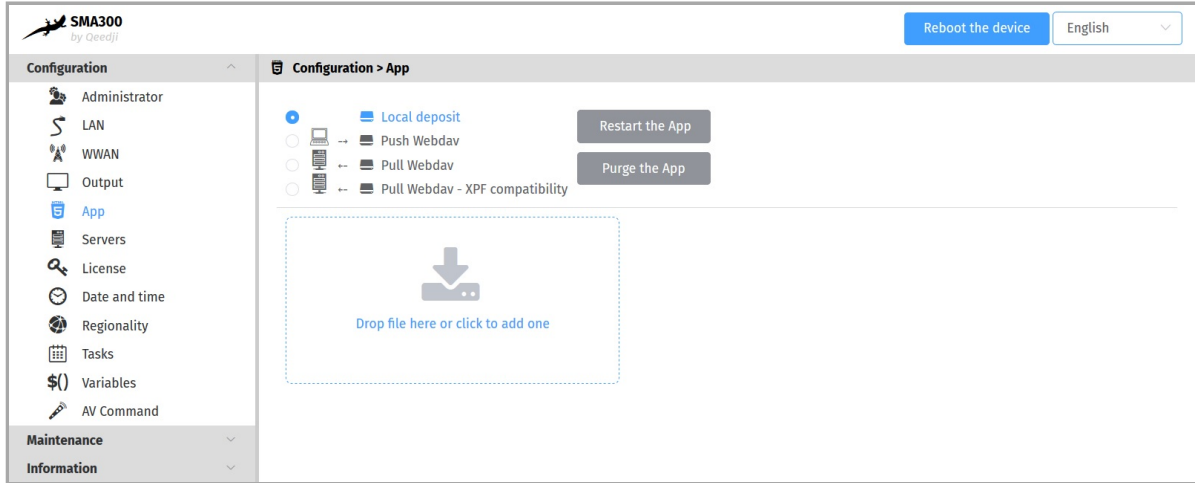
### 3.1.5 Configuration > App

From the Configuration pane, select the **App** menu to select how the App must be loaded.

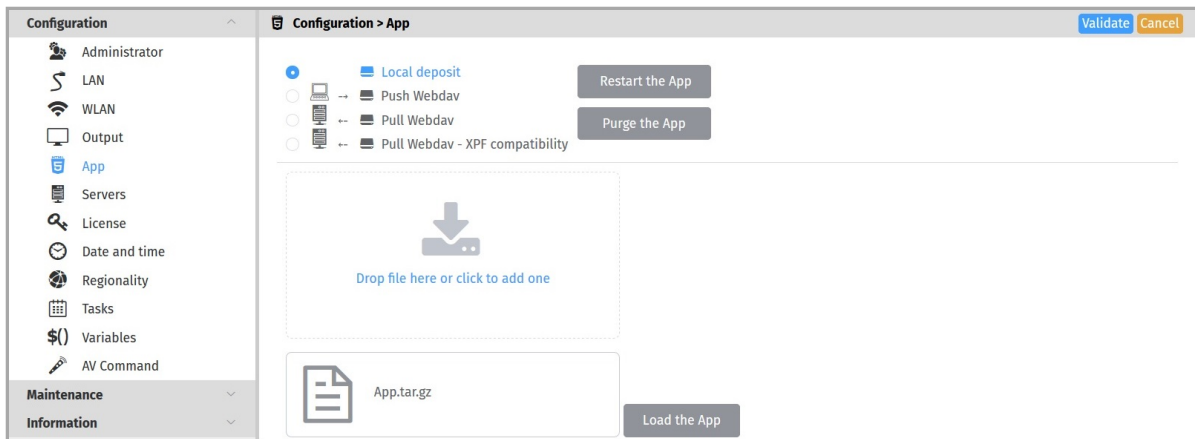
For each mode, you can use the Purge the App Or Restart the App buttons at any time to remove the App from the device or restart it, respectively.

- ▮ The Restart App or Purge the App cannot work when Test card is activated.
- ▮ In order to restart an App, the App must be first loaded on the device.

- Local deposit : Allows to load an App from the device Web user interface and play its content immediately.



Use the Drop file here box or click to add one to drop your App .

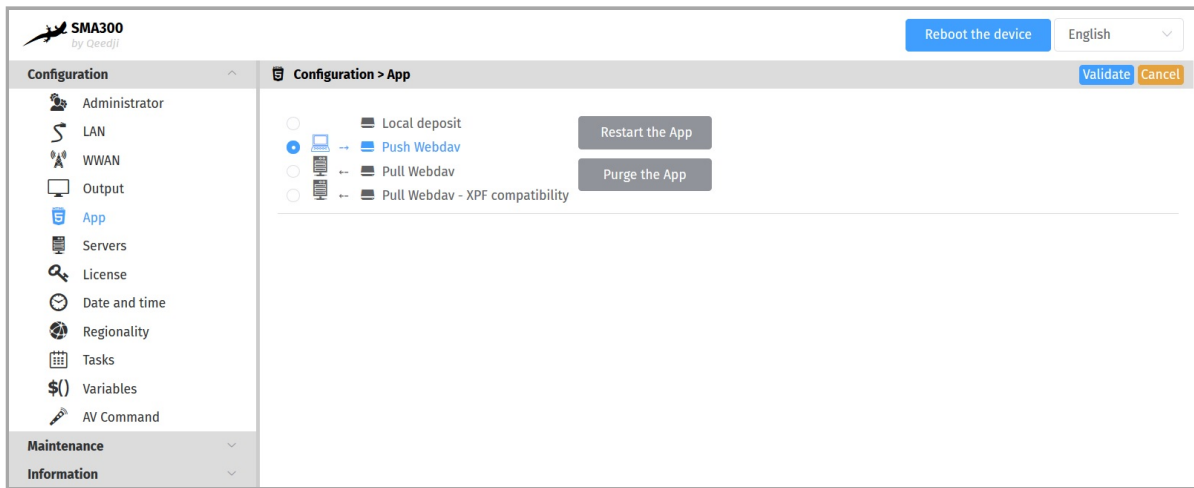


Then click on the Load App button. When the file disappears from the interface, the App is loaded and starts automatically.

- ▮ The development of App is reserved for advanced users with software development skills. The content of the App must contain at least these 2 files `manifest.xml` and `player.html` . Then archive your App in one of the supported formats: `*.tar.gz`, `*.zip`, `*.tar`, `*.tgz` . App examples are available at [github SDK-G4 API \(PDF example\)](#). For further information, contact [support@qeedji.tech](mailto:support@qeedji.tech).

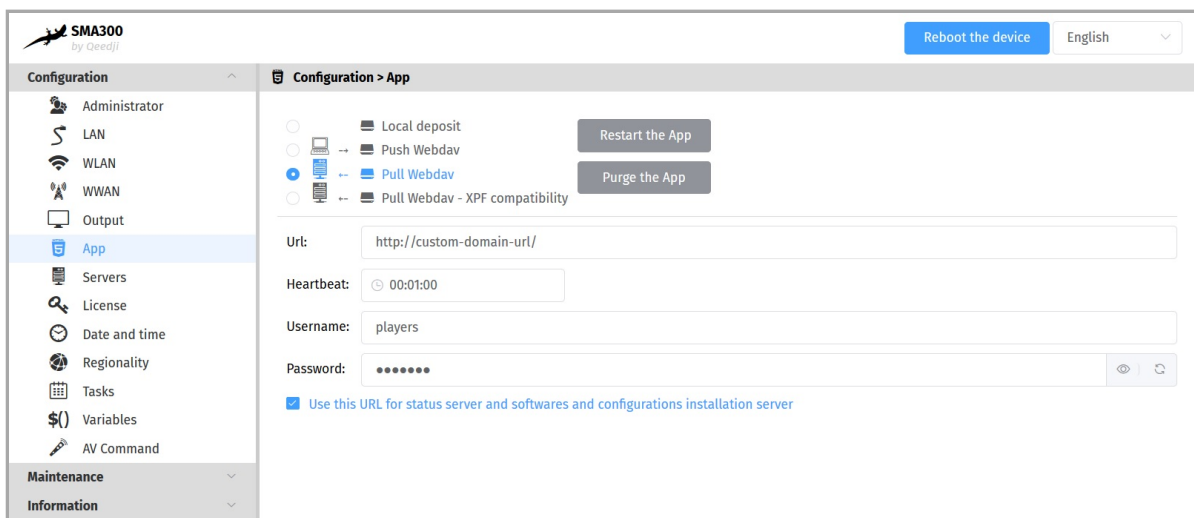
- Push WebDAV : Configure the device to receive an App coming from any WebDAV client or from any compatible software suite. Once the App is loaded, it starts immediately.





☞ To find out which software suites are capable of publishing an App on Qeedji devices, contact [support@qeedji.tech](mailto:support@qeedji.tech).

- Pull WebDAV : allows to configure the device so that it can regularly load or update an App from a remote WebDAV server. Once the App is loaded, it starts immediately.



Fill in the fields below correctly:

- **URL** : URL of the remote server's WebDAV frontal. For example: URL : `http://domain:8080/.directory/`
- **Username/Password** : login credential to access to the remote server's WebDAV frontal.
- **Heartbeat** : in `HH:MM:SS` format, time period to connect to the remote server (default: 1 minute).
- **option**: Use this URL for the status server and the software and configuration installation server :
  - if enabled, this option allows, based on the defined URL, to automatically set the URLs of the remote servers for:
    - firmware upgrade and configuration scripts distribution:
      - URL + `.setup/` suffix,
      - the diffusion of the device status:
        - URL + `.devices-status/` suffix.
    - if disabled, this allows to set specific remote server URLs.

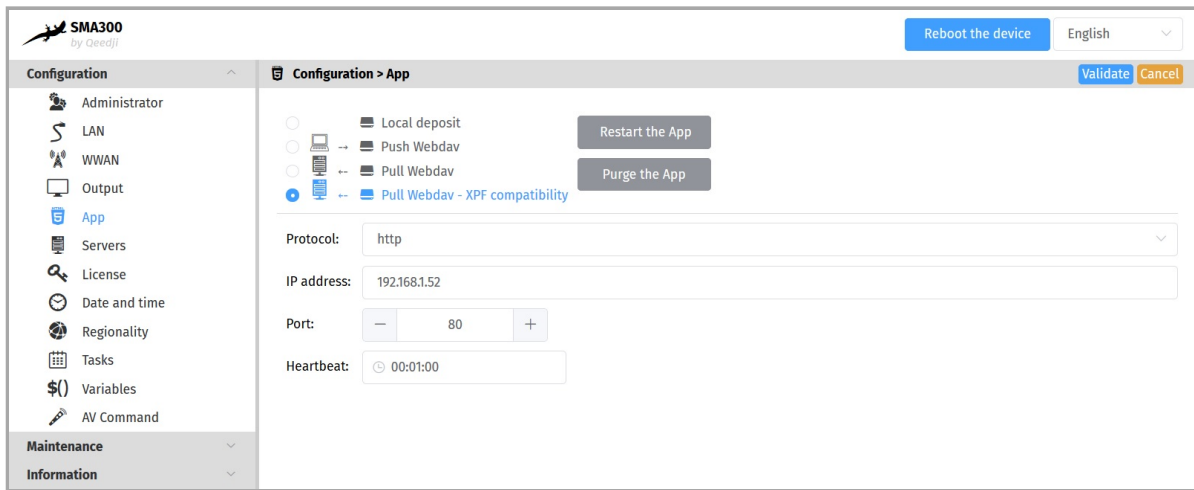
☞ The user preference `innes.app-profile.addon-manager.*.*.*.http-downloader.validity-calendar` allows to store the content of an ICAL file defining the validity range for triggering firmware upgrade and configuration scripts.

☞ The user preference `innes.app-profile.manifest-downloader:g3.*.*.*.validity-calendar` allows to store the content of an ICAL file defining the validity range for device content updates.

☞ The user preference `innes.Launcher.status.validity-calendar` allows to store the content of an ICAL file defining the validity range for the diffusion of the device status (status.xml).

☞ To find out which software suites are able to publish on a remote server, an App supporting Qeedji devices, contact [support@qeedji.tech](mailto:support@qeedji.tech).

- Pull WebDAV - XPF Compatibility : allows to configure the device so that it can regularly retrieve XPF content from a remote WebDAV server and transform it into an App. Once the App is generated, its content is immediately played.



The user preference `innes.app-profile.manifest-downloader:g2.*.*.validity-calendar` allows to store the content of an ICAL file defining the validity range for content updates of devices in `Pull WebDAV - XPF compatibility` mode.

Fill in the fields below correctly:

- Protocol : `http` or `https`,
- IP address : IP address of the remote server (XPF compatibility),
- Port : port used by the remote server (XPF compatible),
- Heartbeat : in `HH:MM:SS` format, time period to connect to the remote server (default: 1 minute).

## App supported

The device can support for example:

- *Linear layout App*,
- *Room booking App*.

For further information, contact [support@qeedji.tech](mailto:support@qeedji.tech).

The device can support also for example App coming from `Qeedji PowerPoint publisher for media players`. Once this PowerPoint Add-on is installed on your computer, it allows to publish a PowerPoint presentation on some of your media players. For further information, refer to the chapter § [Appendix: Qeedji PowerPoint publisher For Media Players](#)

## 3.1.6 Configuration > Servers

In the Configuration pane, select the **Servers** menu to define the configuration of the servers peripheral to your device.

The screenshot shows the SMA300 configuration interface. The left sidebar lists various configuration categories, with 'Servers' selected. The main panel displays the 'Configuration > Servers' settings. It includes sections for server status and installation, DNS settings, NTP time server configuration, and proxy server settings. The 'Status, installation and configurations servers' section has two entries, each with a checked checkbox, a URL field, a heartbeat timer, and a password field. The 'DNS Servers' section has radio buttons for automatic and manual configuration, with fields for preferred and alternate DNS servers and DNS suffixes. The 'NTP time server' section has a checked checkbox, a field for the NTP server, and spinners for the maximum number of tries and maximum waiting time. The 'Proxy servers' section has radio buttons for manual and automatic configuration, and sub-sections for HTTP, HTTPS, and FTP, each with fields for address, port, username, and password. There are also checkboxes for 'No proxy for' and a text field for 'Others'.

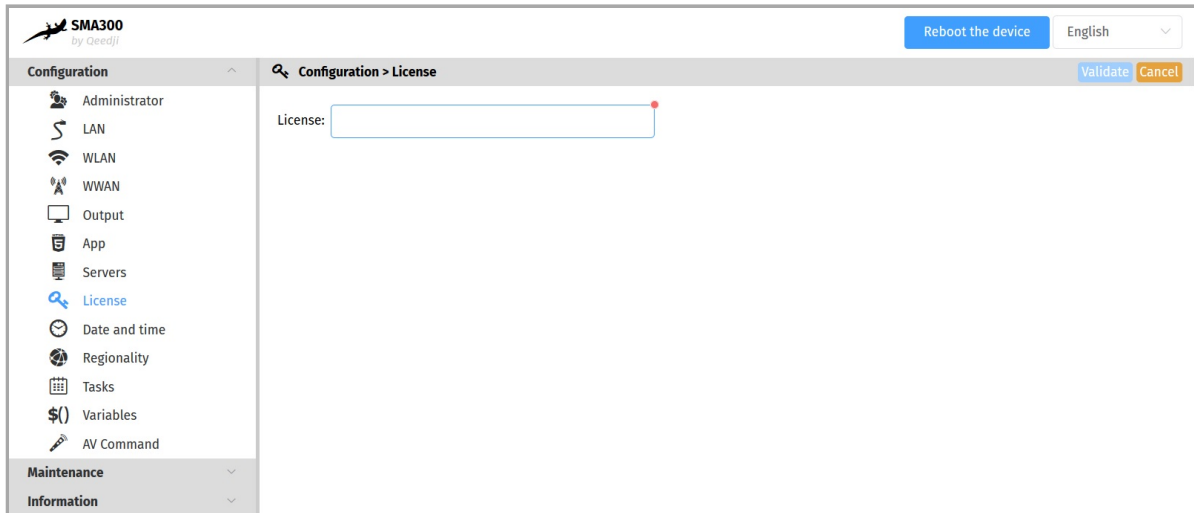
- status, software installation and configuration servers.
  - Status server :
    - URL : URL of the remote server's WebDAV frontend for the broadcast of the `.device-status/status.xml` device status file. For example: `http://domain:8080/.directory/`
    - Username/password : login and password for the remote server's WebDAV frontend connection.
    - Heartbeat : in `HH:MM:SS` format, period duration of the connection to the remote server (default: 1 minute).
  - Software installation and configuration servers :
    - URL : URL of the remote server's WebDAV frontend for hosting update software and configuration scripts. For example: `http://domain:8080/.directory/`
    - Username/password : login and password for the remote server's WebDAV frontend.
    - Heartbeat : in `HH:MM:SS` format, period duration of the connection to the remote server (default: 1 minute).
- DNS servers ,
- NTP Time Servers : allows to set a time server in order the device is always on time <sup>1</sup>.

- Proxy server .

<sup>1</sup> If your device does not have access to the Internet, it is possible to turn an MS-Windows computer into an NTP server. For further information, contact your IT department.

### 3.1.7 Configuration > License

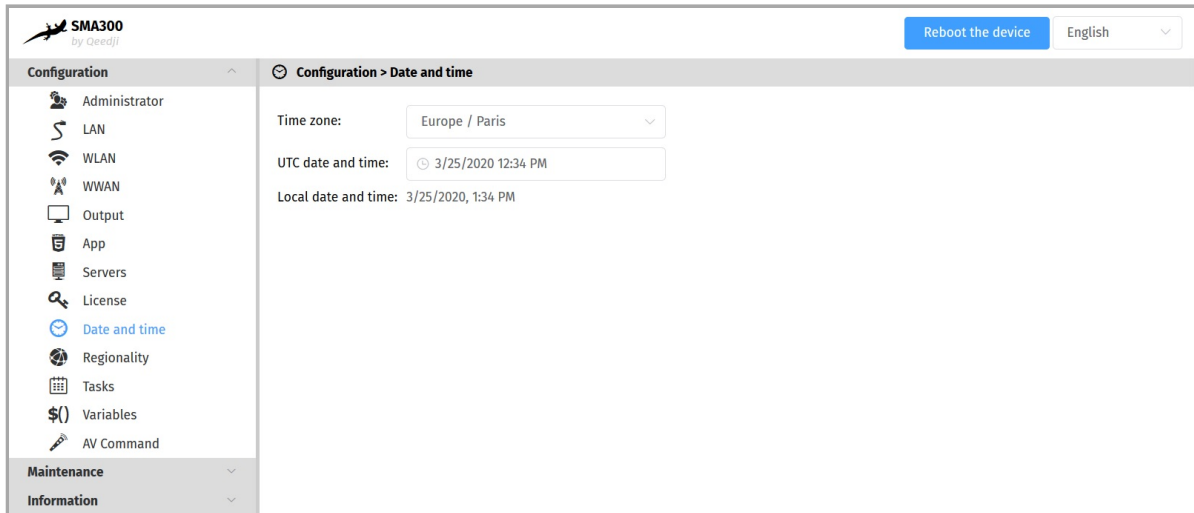
In the Configuration pane, select the **License** menu to view your device license number.



This license number is registered at the factory when the device is ordered. It is then sent to you by e-mail. If it has disappeared due to a handling error or after formatting your device, an error message indicating that the license is invalid will appear on your screen. In this case, please re-enter the license for your device.

### 3.1.8 Configuration > Date and time

From the **Configuration** pane, select the **Date and Time** menu to check the system date and time of your device.

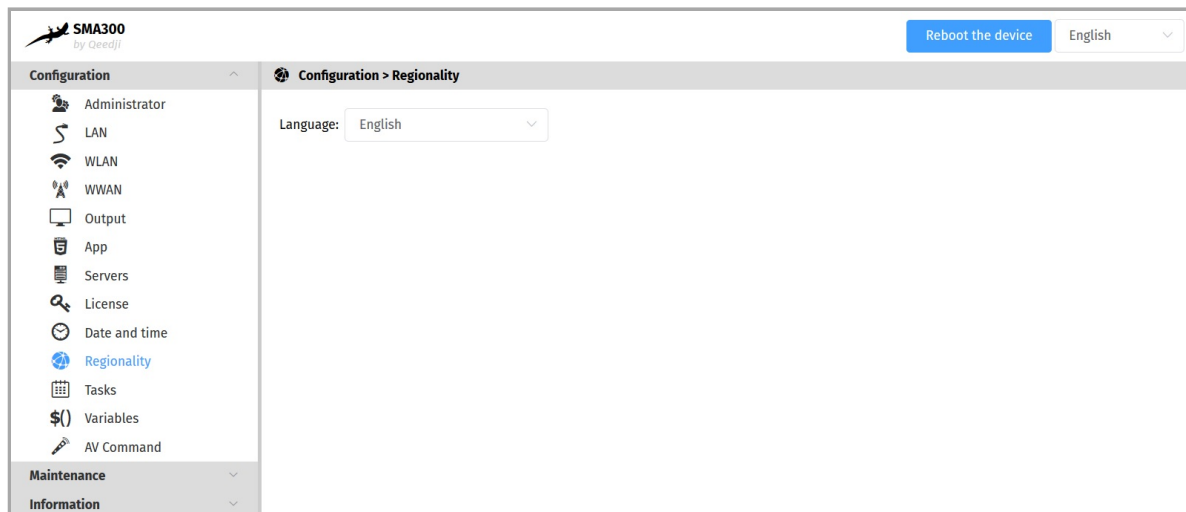


To update the date and time of your device, click on the **UTC Date and Time** value and then click on the **Now** button.

- Resetting the time involves a restart of the device immediately. If you have several configuration settings to change, it is advisable to adjust the date and time at last.
- It is advised that your device is on time. If your device is connected to the Internet, it is advised to synchronize the date and time on a Web NTP server. For further information, refer to the chapter § [Configuration > Servers](#).

### 3.1.9 Configuration > Regionality

From the Configuration pane, select the **Regionality** menu to choose the language in which information messages or error messages related to the device need be displayed.



The supported languages are:


- *English,*
- *Spanish,*
- *German,*
- *French.*

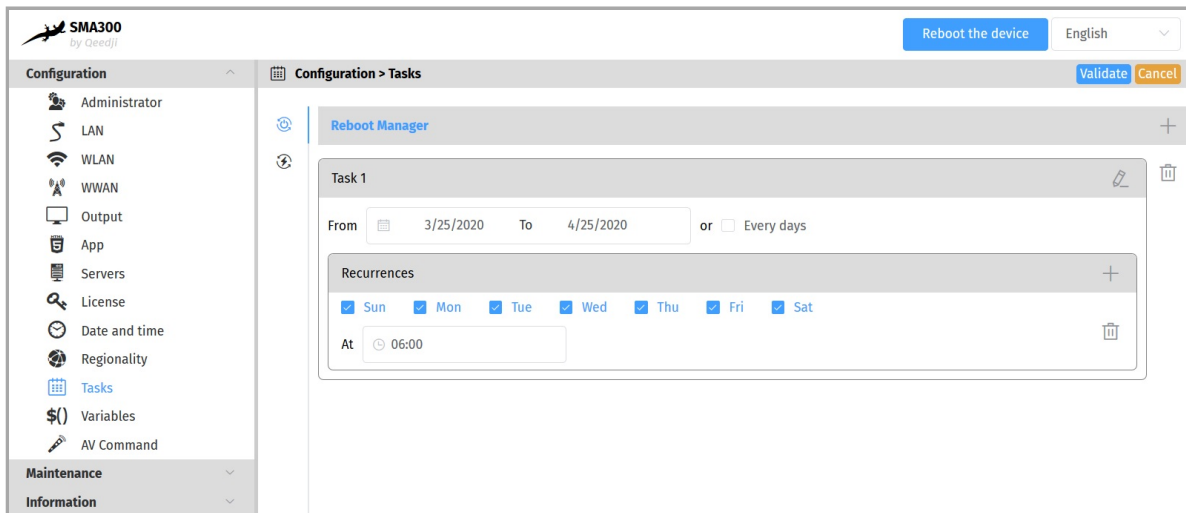
### 3.1.10 Configuration > Tasks

From the Configuration pane, select the **Tasks** menu to:

- program a device reboot task,
- program an energy management task for the appliance to reduce its energy consumption.

#### Device restart tasks

To create a restart task, click on the  button and then the **+** button.



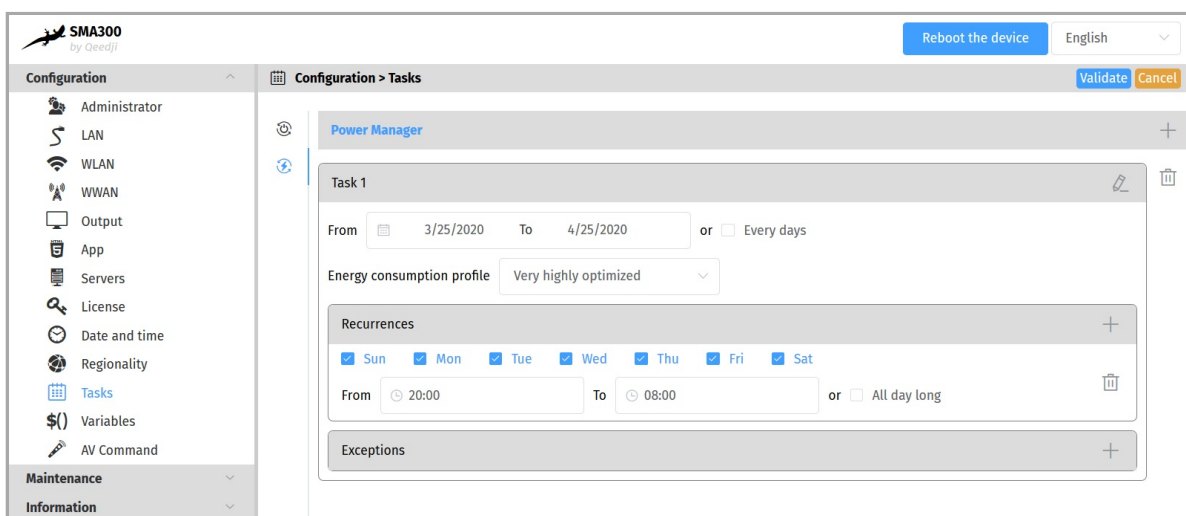
It is therefore possible to program in time several reboot occurrences whose parameters are stored in an ICAL format in the user preferences `innes.reboot-manager.calendar`.

Example of value (ICAL format):

```
BEGIN:VCALENDAR
VERSION:1.0
BEGIN:VEVENT
SUMMARY: Reboot Task 1
DTSTART:20200407T091800
DTEND:20200407T091805
RRULE:FREQ=WEEKLY;BYDAY=MO,TU,WE,TH,FR,SA,SU;UNTIL=20200507T235959
END:VENT
END:VCALENDAR
```

#### Device power manager tasks

To create a device power manager task, click on the  button and then the **+** button.



The possible values programmable in time are

- *Very highly optimized,*
- *Highly optimized,*
- *Optimized means,*
- *Nominal mode.*



It is possible to create several energy manager tasks in the same day. These settings for scheduled power level, start time, end time, occurrence, and exception are stored in ICAL format in the user preference `innes.power-manager.calendar`.

Example value (ICAL format):

```
BEGIN:VCALENDAR
VERSION:1.0
BEGIN:VEVENT
SUMMARY:Standby Task 1
X-POWER-MANAGER-LEVEL:MIN
DTSTART:20190805T090000
DTEND:20190805T120000
RRULE:FREQ=WEEKLY;BYDAY=MO,TU,WE,TH,FR,SA,SU;UNTIL=20200416T0000
END:VEVENT
END:VCALENDAR
```

▮ The Power Manager task scheduled at the device Web user interface has no effect when another sleep task is scheduled within the App.

In this version, here is the state of the device when the power manager is in the *Very highly optimized* state:

Function	Associated User Preferences
Sound: inactivated	<code>innes.power-manager.level.min.&lt;&gt;.mute = true</code>
Screen: off	<code>innes.power-manager.level.min.&lt;&gt;.power-mode = 0</code>
Volume: 0%	<code>innes.power-manager.level.min.&lt;&gt;.volume = 0</code>
Opacity: 100%	<code>innes.power-manager.level.min.&lt;&gt;.opacity = 100</code>
Brightness: 0%	<code>innes.power-manager.level.min.&lt;&gt;.brightness = 0</code>
Backlight: 0%	<code>innes.power-manager.level.min.&lt;&gt;.backlight = 0</code>

In this version, here is the state of the device when the power manager is in the *Highly optimized* state:

Function	Associated User Preferences
Sound: activated	<code>innes.power-manager.level.low.&lt;&gt;.mute = false</code>
Screen: on	<code>innes.power-manager.level.low.&lt;&gt;.power-mode = 1</code>
Volume: 10%	<code>innes.power-manager.level.low.&lt;&gt;.volume = 10</code>
Opacity: 80%	<code>innes.power-manager.level.low.&lt;&gt;.opacity = 80</code>
Brightness: 10%	<code>innes.power-manager.level.low.&lt;&gt;.brightness = 10</code>
Backlight: 10%	<code>innes.power-manager.level.low.&lt;&gt;.backlight = 10</code>

In this version, here is the state of the device when the power manager is in the *Medium Optimized* state:

Function	Associated User Preferences
Sound: activated	<code>innes.power-manager.level.high.&lt;&gt;.mute = false</code>
Screen: on	<code>innes.power-manager.level.high.&lt;&gt;.power-mode = 1</code>
Volume: 80%	<code>innes.power-manager.level.high.&lt;&gt;.volume = 80</code>
Opacity: 20%	<code>innes.power-manager.level.high.&lt;&gt;.opacity = 20</code>
Brightness: 80%	<code>innes.power-manager.level.high.&lt;&gt;.brightness = 80</code>
Backlight: 80%	<code>innes.power-manager.level.high.&lt;&gt;.backlight = 80</code>

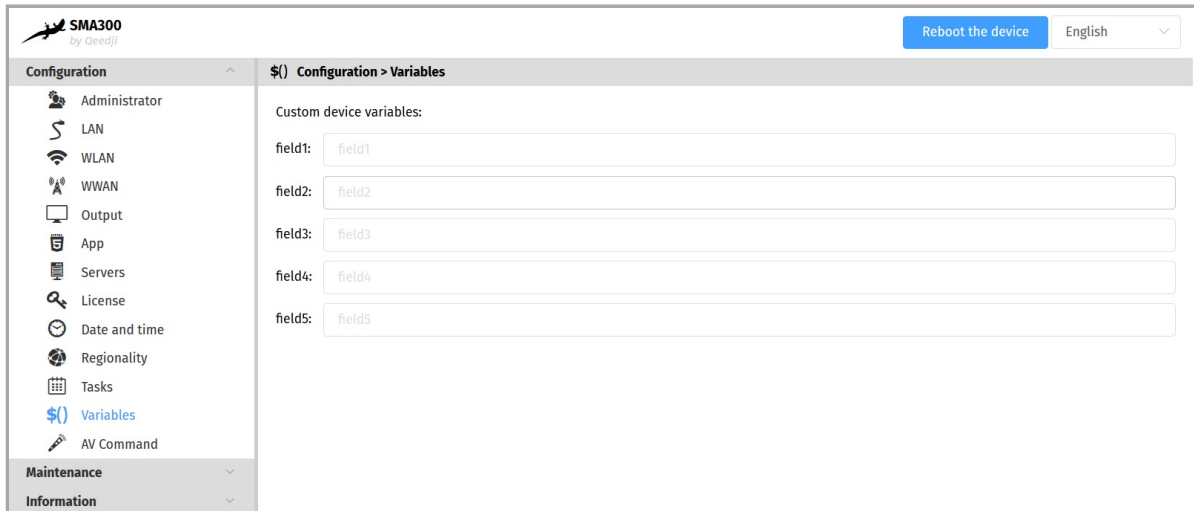
In this version, here is the status of the device when the power manager is in the *Nominal mode* state, meaning the default mode when no other power manager tasks are running.

Function	Related User Preferences
Sound: activated	<code>innes.power-manager.level.max.&lt;&gt;.mute = false</code>
Screen: on	<code>innes.power-manager.level.max.&lt;&gt;.power-mode = 1</code>
Volume: 100%	<code>innes.power-manager.level.max.&lt;&gt;.volume = 100</code>
Opacity: 0%	<code>innes.power-manager.level.max.&lt;&gt;.opacity = 0</code>
Brightness: 100%	<code>innes.power-manager.level.max.&lt;&gt;.brightness = 100</code>
Backlight: 100%	<code>innes.power-manager.level.max.&lt;&gt;.backlight = 100</code>

▮ *The values of these user preferences are all modifiable.*

### 3.1.11 Configuration > Variables

From the Configuration pane, select the **Variables** menu to set variable (or TAG) values for this device.



The variable names are:

- field1,
- field2,
- field3,
- field4,
- field5.

These variable values can then be used in Apps to perform specific processing for certain devices only.

▮ Variable values can only contain characters from the ASCII-7bits table.

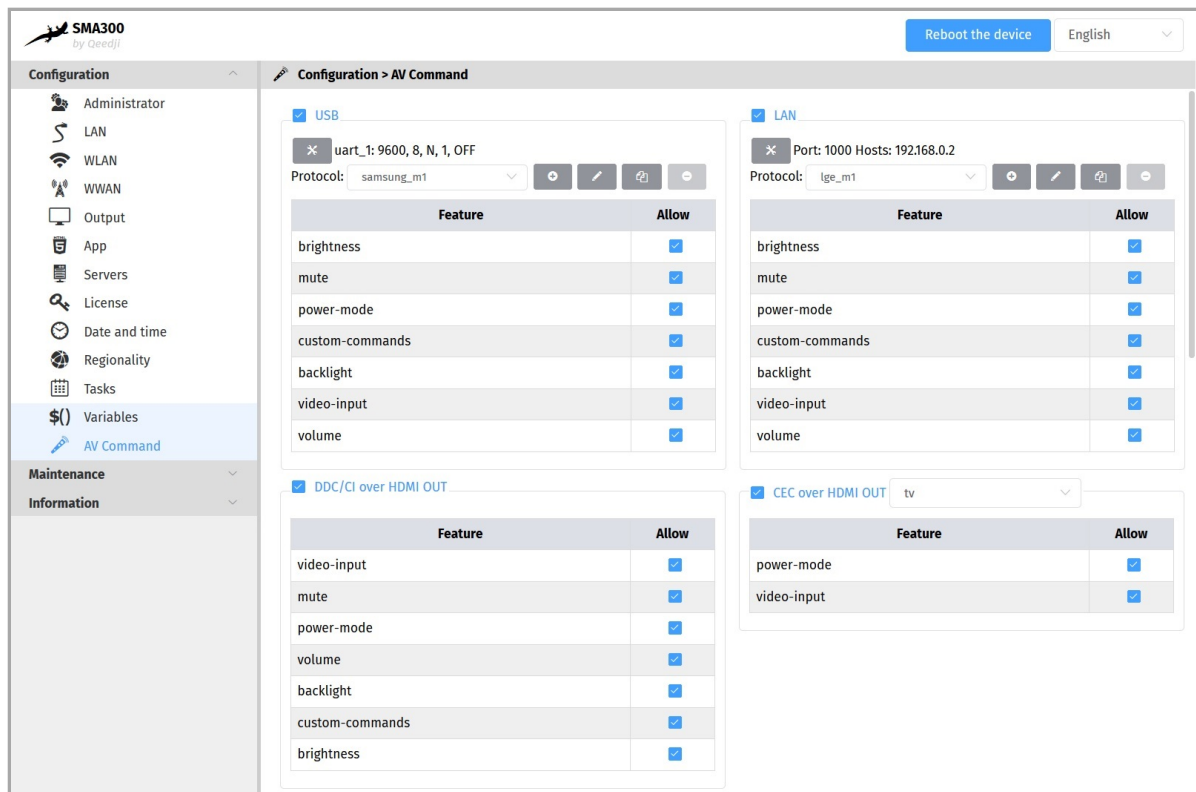
### 3.1.12 Configuration > AV commands

From the **Configuration** pane, select the **AV Commands** menu to enable the control of screens by AV (Audio-Video) commands through the connectors:

- RS232 ,
- ETHERNET ,
- HDMI .

AV Command name	Description
<i>brightness</i>	screen brightness control
<i>mute</i>	screen mute control
<i>power-mode</i>	screen saver control
<i>back-light</i>	screen backlight control
<i>video-input</i>	screen audio-video source selection control
<i>volume</i>	screen volume control
<i>custom-commands</i>	control of specific display devices (projectors, ...) via support for user-implemented AV commands

When the *power-mode* AV control is enabled through the specified connectors, it is automatically used when the App goes into screen saver mode or when a screen saver task is scheduled through the Web-based configuration interface.



Depending on the connectors, not all AV commands are supported.

#### RS232

For screen control via AV Command RS232 DTE, select the **RS232 DTE** option.

- First check in the datasheet that your screen supports AV Command via RS232. Using the screen configuration menu, activate the support of AV Command via RS232 on your screen (example for a SAMSUNG screen: Menu *MuLticontrol* then *MDC Connection* then select *RS232 MDC*)).
- In order for your screen to be able to receive AV commands, connect a crossover serial cable between your device and your screen.

With the ✕ button, configure the RS232 interface of your device to match the RS232 configuration of your screen.

Choose the appropriate protocol according to your screen.

- First check in the datasheet of your screen or audio-video device which AV Command protocol is supported.
- If none of the protocols are suitable, you can create your own protocol with the button ⊕ or duplicate an existing protocol with the button ↺ and adapt it with your own AV Commands.

#### LAN

For screen control via AV Command LAN, select the **LAN** option.

With the **X** button, configure the LAN interface of your device by adding:



- the IP address(es) of the screen(s) to drive,
- the port to be used (for example, port 1015) for sending AV commands.

▮ Check beforehand in the datasheet that your screen supports AV Command over Ethernet. Using the screen configuration menu, activate the support of AV commands over Ethernet on your screen (for example for a SAMSUNG screen: Menu *Multicontrol* then *MDC Connection* then select *Ethernet MDC* ).

▮ In order for your display to receive AV commands over Ethernet, make sure that your device and display are in the same local network.


Choose the appropriate protocol based on your screen.

▮ First check in the datasheet of your screen or audio-video device which AV Command protocol is supported.

▮ If none of the protocols are suitable, you can create your own protocol with the button  or duplicate an existing protocol with the button  and adapt it with your own AV Commands.

## DDC/CI on HDMI-OUT

For AV Command DDC/CI screen control through the HDMI-OUT connector, select the **DDC/CI on HDMI-OUT** option.

▮  Some displays do not support AV Command DDC/CI correctly. If your screen does not exit from standby after activating AVCommand despite an App that is properly programmed, consider disabling DDC/CI AV Commands for that screen as it probably does not support standby output AV commands properly.

## CEC on HDMI-OUT

For screen control by AV Command CEC through the HDMI connector, select the **CEC on HDMI-OUT** option.

▮  Some screen do not correctly support AV commands by CEC. If your screen does not come out of standby after activating AVCommand despite an App that is properly programmed, consider disabling CEC AV Commands for that screen as it probably does not support standby output AV commands properly.

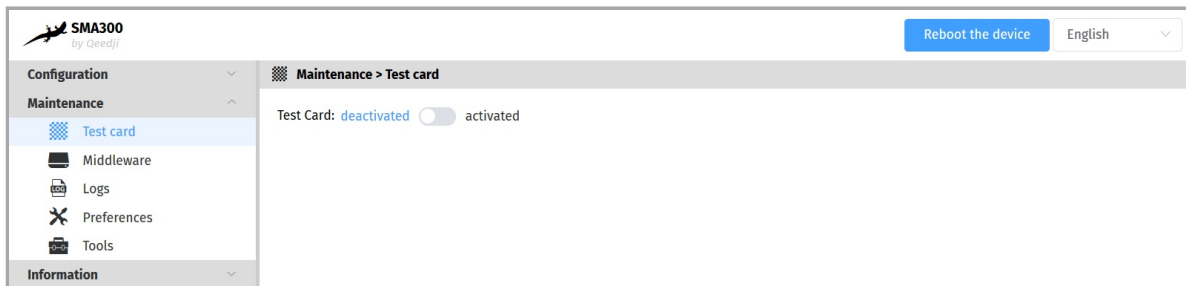
Next, to control your screen with the AV Controls, load and play an appropriate App. It is possible to create your own App that uses the AVCommand APIs available here: [github AVCommand API](#).

### 3.1.13 Maintenance > Test card

From the Maintenance pane, select the **Test card** menu to enable or disable the test pattern. The test pattern is often enabled during:

- installing devices on the network,
- the development of the output resolution and overscan.

▮ When the test card is activated, the content of the App is not played.



### Activation of the test pattern through your screen supporting CEC

If your screen supports the CEC<sup>1,2</sup> on HDMI, you can enable or disable the test pattern by pressing a key combination on the screen's remote control:

- [left Arrow, Right Arrow, Left Arrow, Right Arrow] key combination in less than 10 seconds.

▮ Make sure that no menus or banners are displayed on the screen.

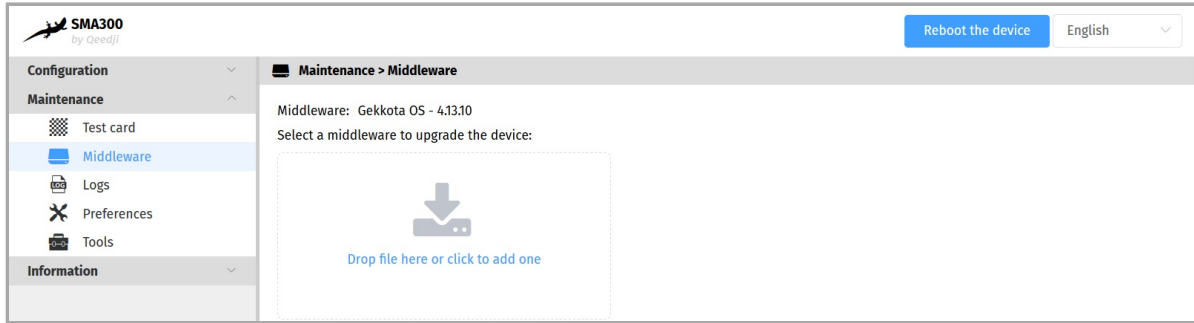
▮ Before applying the keystroke combination, some screen requires to unselect and then select the HDMI source of the display to which the device is connected to force a CECSetInput\_Source.

<sup>1</sup> For SAMSUNG screen, CEC is usually activated by activating the Anynet function. <sup>2</sup> for LG screen, CEC is usually activated by using the Simplink key on the remote control.

Function	Linked User Preference
Support for test pattern activation by key combination	innes.player.test pattern.key-event.*.authorized (default= true)

### 3.1.14 Maintenance > Middleware

From the **Maintenance** pane, select the **Middleware** menu to view the version of the middleware installed on your device.



Corrective and evolutive maintenance software versions are regularly made available on the [Qeedji Web site](#). It is therefore advisable to regularly update your device. From this website, download the latest version available for your device model. Unzip the `.zip` archive and get the `.frm` file.

Drop your `.frm` file in the **Drop file here** box or click to add one, then click on the **Send** button to update the **Gekkota OS** version of your device. Wait a few minutes, the time to load and install the new version. Go back to the **Administration console** user interface and check the new Gekkota OS version number of the device.

⚠ Do not electrically disconnect the device during the firmware upgrade. For further information, refer to the chapter § [LED behaviour](#).

### 3.1.15 Maintenance > Logs

From the `Maintenance` pane, select the **Logs** menu to activate logs. The log levels are:

- `DEBUG` : activation of level logs: `ERROR + WARN + DEBUG`,
- `WARN` : activation of level logs: `ERROR + WARN`,
- `ERROR` : activation of level logs: `ERROR`,
- `OFF` : disabling logs.

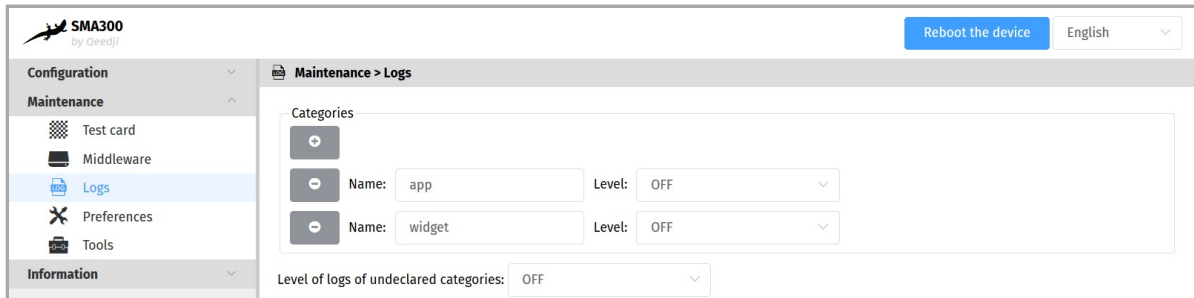
Logs are compartmentalized according to software functions such as:

- `app` : App debug,
- `widget` : HTML widget debugging,
- `network` : debug of the network related layer,

▮ These logs may be activated on support request in exceptional debug cases.

▮ These logs can only be interpreted only by software developers who are familiar with the software bricks that have been developed.

Activating the logs with a level other than `OFF` should only be done after a request from `qeedji` support.



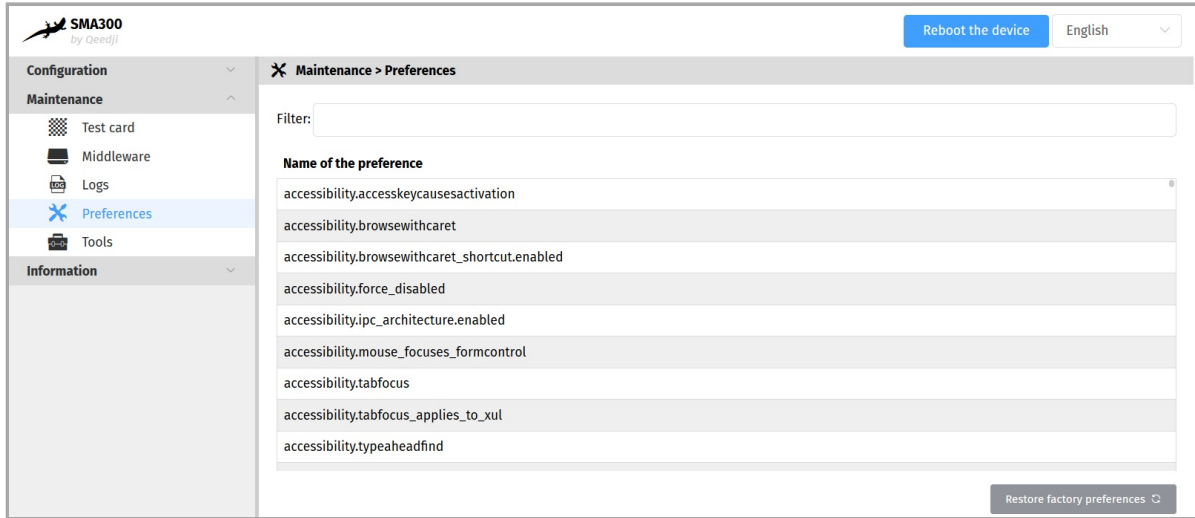
⚠ Enabling traces All trace levels of undeclared categories with a `DEBUG` or `WARN` level can significantly disrupt the operation of the device.

⚠ After a debug session with support, in nominal operation, all levels should be reset to `OFF`.



### 3.1.16 Maintenance > Preferences

In the Maintenance pane, select the **Preferences** menu to view all the preferences.



The filter allows to list only the preferences whose name contains the string entered in the filter. All the preferences have optimal default values.

 Before changing any value of a preference, please consult your [Qeedji](#) support.

Double click on a preference to change its value.

The `Restore factory preferences` button resets a subset of preferences allowing the device to reprogram its factory preferences.

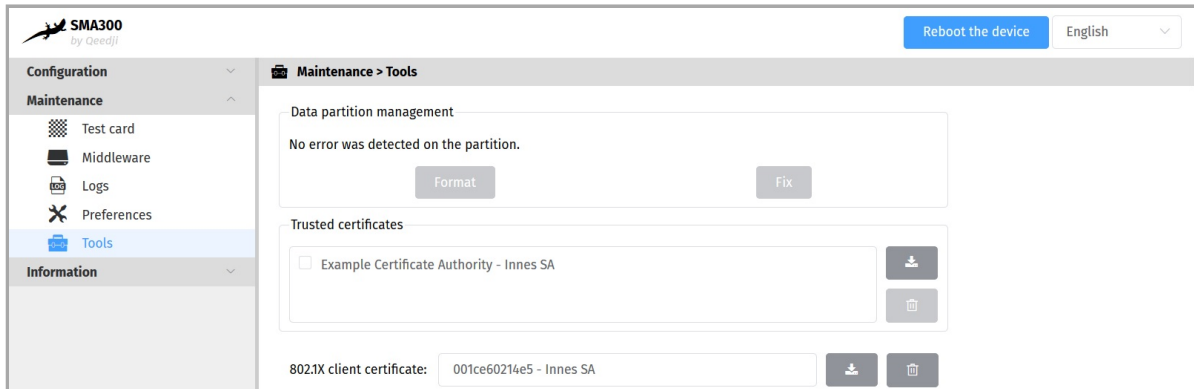
Here are some user preferences that may be useful.

user preference	value	description
<code>innes.video.decoding-group.enabled</code>	<i>false</i> (default)	If a second video is trying to start while a first one is already running, the first video is stopped and the second video starts. A temporarily unavailable message content is displayed for the last stopped video media.
<code>innes.video.decoding-group.enabled</code>	<i>true</i>	In case a second video media tries to start while a first one is already running, the second video does not start. Temporarily unavailable message content is displayed for the second video media.
<code>media.mediasource.enable</code>	<i>false</i>	Disabling the DASH MSE.
<code>innes.hid.pointer-event.*.authorized</code>	<i>true</i>	Allows support for HDMI/USB touchscreens.
<code>innes.video.has.max-bitrate</code>	5	(Mbps) setting the maximum bitrate of a DASH Mpeg stream.
<code>media.cache_size</code>	16384 (default) to 65536	(in KB) Allows to support higher bitrate DASH Mpeg streams.
<code>innes.webserver.providers.http.enabled</code>	<i>true</i>	Allows to support access to the device in <code>http://</code> .
<code>innes.webserver.providers.https.enabled</code>	<i>true</i>	Allows to support access to the device in <code>https://</code> .

### 3.1.17 Maintenance > Tools

In the Maintenance pane, select the **Tools** menu to:

- **Fix** errors detected on the SD card data partition,
- format the data partition of the SD card,
- add Trusted certificates ,
- add 802.1X client certificate .



▮ The `format` and `fix` buttons are only active if the Gekkota OS middleware has actually detected write or read errors on the partition.

A message indicates on the screen that an error has occurred on the partition and that a device reboot is necessary.

If the `Fix` button is accessible, clicking on the `Fix` button will repair the content without purging the App. If the problem persists, and the `Format` button is available, clicking on the `Format` button will format the content. It is then necessary to publish again the App.

▮ If the problem persists after formatting the SD card, contact your `Qeedji` support.

### 3.1.18 Information > Device

In the `Information` pane, select the **Device** menu to view system information about the device.

- `Middleware` : label and version of the embedded middleware,
- `Model` : model of the `Qeedji` device,
- `Hostname` : name of the device on the network,
- `MAC` : MAC address (value used in particular to generate the license key of the device),
- `UUID` : Universal Unique Identifier,
- `PSN` : Product Serial Number.

### 3.1.19 Information > Network

In the **Information** pane, select the **Network** menu to view a summary of the device's network configuration.

The screenshot displays the SMA300 web interface. The top left corner shows the SMA300 logo and the text "by Qeeqj". The top right corner features a "Reboot the device" button and a language dropdown menu set to "English". The left sidebar contains a navigation menu with the following items: Configuration, Maintenance, Information, Device, Network (highlighted), and Screens. The main content area is titled "Information > Network" and contains the following sections:

- Delivery, status and installation servers:**

Delivery server (G3):	http://custom-domain-url/	Heartbeat: 00:01:00
Status server:	http://custom-domain-url/device-status/	Heartbeat: 00:01:00
Softwares and configurations installation server:	http://custom-domain-url/setup/	Heartbeat: 00:01:00
- NTP time server**

NTP Server: fr.pool.ntp.org
- LAN\_1**

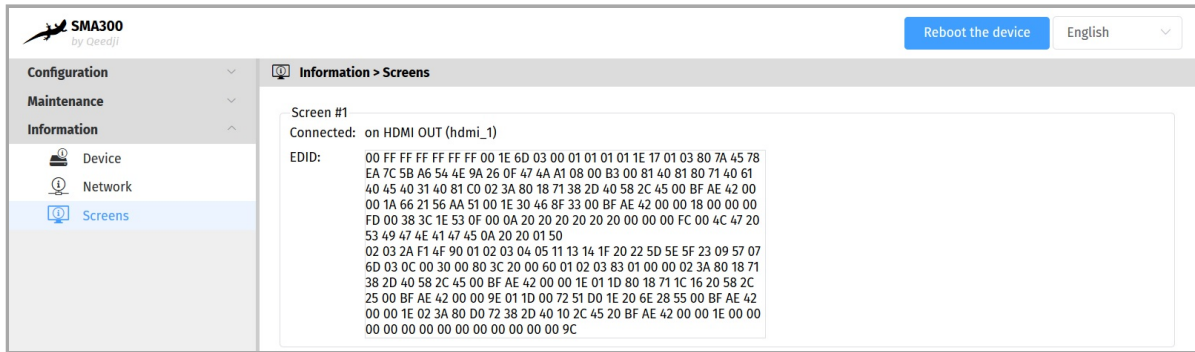
Mac address: 00-1C-E6-02-14-E5  
Ip v4 address: 192.168.160.2/24  
Ip v6 address: fc00::21c:e6ff:fe02:14e5/64 [AUTO]  
Default gateway: 192.168.160.6  
State: connected  
DNS Servers: 192.168.0.4, 8.8.8.8, 8.8.4.4
- WLAN\_1**

Mac address: 00-19-88-46-7A-AE  
Ip v4 address: 192.168.1.218/17  
Ip v6 address:  
Default gateway: 192.168.0.1  
State: not connected  
DNS Servers:
- WWAN\_1**

Ip v4 address:  
Ip v6 address:  
Default gateway:  
State: not connected  
DNS Servers:

### 3.1.20 Information > Screens

From the **Information** pane, select the **Screens** menu to view information about the connected display in HDMI.



# Part IV | Configuration by script

## 4.1 Configuration by script

The SMA300 device can auto-configure with a configuration script. The configuration script can be either hosted on remote WebDAV server, or broadcasted by your DHCP server (code 66) or injected through an USB storage device. For further information, refer to the [configuration-by-script](#) application note.

In case the script is containing an error, the syntax error is reported in the `http://<device-ip-addr>/.status/status.xml` file.

# Part V | Technical information



## 5.1 Technical specifications

<b>Model</b>		<b>Manufacturer</b>	
SMA300		Qeedji	
<b>Processors</b>			
CPU		Freescale iMX6	
GPU		Vivante	
<b>Peripherals</b>			
2x USB 2.0 Host (Low/Full/High Speed)			
1x Jack 3.5 mm configurable in GPIO or Infrared			
<b>Storage</b>		<b>Information</b>	
Internal Flash Memory for OS			
SD card		Qualified SD cards: SANDISK / SDSDAA-032G / 32 GB, SANDISK / SDSDB-032G-B35 / 32 GB, SANDISK / SDSDAA-008G / 8 GB	
<b>Middleware</b>			
Gekkota OS 4			
<b>Audio outputs</b>			
Jack 3.5 mm R+L stereo analog			
Embedded with HDMI output			
<b>Video output</b>			
1x HDMI 1.4			
<b>Display resolutions for video output</b>			
640x480 60Hz, 800x600 60Hz VESA, 1024x768 60Hz VESA, 1024x768 60Hz XGA, 1024x576 60Hz VESA, 1024x576 50Hz VESA, 1024x600 60Hz DENSITRON 84-0188-001T, 1280x720 60Hz CEA-861, 1280x720 50Hz CEA-861, 1280x720 60Hz VESA, 1280x720 50Hz VESA, 1280x720 60Hz SMPTE (720p), 1280x720 50Hz SMPTE (720p), 1280x720 60Hz CEA, 1280x720 50Hz CEA, 1280x720 60Hz SONY, 1280x720 60Hz CGV CPLine AV-HD, 1280x720 60Hz SAMSUNG, 1280x768 60Hz VESA, 1280x768 50Hz VESA, 1280x800 60Hz VESA, 1360x768 50Hz VESA, 1360x768 60Hz VESA, 1376x768 60Hz VESA, 1376x768 50Hz VESA, 1376x768 60Hz PC, 1920x1080 60Hz CEA-861, 1920x1080 50Hz CEA-861, 1920x1080 60Hz VESA, 1920x1080 50Hz VESA, 1920x1080 60Hz SMPTE (1080p), 1920x1080 50Hz SMPTE (1080p), 1920x1080 60Hz CEA, 1920x1080 50Hz CEA, 1920x540 60Hz VESA, 1920x540 60Hz Samsung, 1920x360 60Hz Iiyama, 1920x300 60Hz VESA, 128x96 60Hz, 112x96 60Hz, 96x96 60Hz,			
<b>Network</b>			
1x Ethernet 10/100 BaseT PoE			
<b>Options</b>		<b>Information</b>	
GPRS/EDGE/HSDPA Modem		Mini-SIM card (25 mm x 15 mm)	
WIFI 802.11a/b/g/n (WIFI 4)		SPARKLAN WPEA-152GN(BT) module	

<b>Power supply</b>	
12 V DC (600 mA)	
PoE power (Power Over Ethernet)	
<b>Operating temperature</b>	<b>Storage temperature</b>
+0 °C to +35 °C	-20 °C to +60 °C
<b>Operating humidity</b>	<b>Storage humidity</b>
< 80 %	< 85 %
<b>Weight</b>	<b>Dimensions (W x H x D)</b>
With WiFi: 0,464 Kg (1,02 lb ) Without WiFi: 0,443 Kg (0,97 lb )	165 x 32 x 101 mm (6,49" x 1,26" x 3,97")
<b>Warranty</b>	
3 years	

## 5.2 Conformities

In conformity with the following European directives:

- LVD 2014/35/EU ,
- EMC 2014/30/EU .

# Part VI

## Contacts

## 6.1 Contacts

For further information, please contact us:

- **Technical support:** [support@qeedji.tech](mailto:support@qeedji.tech),
- **Sales department:** [sales@qeedji.tech](mailto:sales@qeedji.tech).

Refer to the Qeedji Web site for FAQ, application notes, and software downloads: <https://www.qeedji.tech/>

Qeedji FRANCE  
INNES SA  
5A rue Pierre Joseph Colin  
35700 RENNES

Tel: +33 (0)2 23 20 01 62  
Fax: +33 (0)2 23 20 22 59

Qeedji GERMANY  
INNES SA  
Verbindungsbüro Deutschland  
Lebacher Str. 4  
66113 Saarbrücken

Tel: +49 (0)9386-979 39-14  
Fax: +49 (0)9386-979 39-15  
Mob: +49 (0)175 853 67 81

# Part VII | Appendix

## 7.1 Appendix: Device status (status.xml)

The SMA300 device is updating regularly its device status stored in its `/.status` WebDAV directory:

```
http://<device-ip-addr>/.status/
```

This file can be periodically sent to a remote WebDAV server for monitoring purpose.

### Status.xml example:

```
<device-status xmlns="ns.innes.device-status">
<device>
<id-type>MAC</id-type>
<mac>00-1c-e6-02-20-e2</mac>
<hostname>sma300</hostname>
<uuid>05c00002-0000-0000-0000-001ce60220e2</uuid>
<modelName>gekkota_os-model</modelName>
<modelNumber>4.13.12</modelNumber>
<serialNumber>00920-00002</serialNumber>
<middleware>gekkota-4</middleware>
<field1/>
<field2/>
<field3/>
<field4/>
<field5/>
<ip-addresses>
<ip-address>
<if-type>LAN</if-type>
<origin>dhcp</origin>
<value>192.168.1.119/17</value>
</ip-address>
<ip-address>
<if-type>LAN</if-type>
<origin>auto</origin>
<value>fc00::21c:e6ff:fe02:20e2/64</value>
</ip-address>
</ip-addresses>
<addons/>
</device>
<status>
<date>2020-03-31T17:40:16.055055+02:00</date>
<launcher>
<power-manager level="MAX"/>
<manifest-metadata xmlns:pzpm="ns.innes.gekkota.manifest">
<pzpm:publish-size>0</pzpm:publish-size>
<pzpm:publish-generator>gekkota_ui</pzpm:publish-generator>
<pzpm:publish-date>2020-03-30T06:45:26.759Z</pzpm:publish-date>
</manifest-metadata>
<state>NO_CONTENT</state>
</launcher>
<storage>
<total unit="byte">1912532992</total>
<used unit="byte">22161408</used>
</storage>
<display-outputs/>
<setup>
<configuration>
<metadatas/>
<version>2019-06-21T13:25:25Z</version>
</configuration>
</setup>
</status>
</device-status>
```

## 7.2 Appendix: Qeedji PowerPoint publisher For Media Players

This appendix explains how to publish .pptx MS-Powerpoint presentation on SMA300 devices using your MS-Office PowerPoint, on which the Qeedji PowerPoint Publisher For Media Players PowerPoint Add In is installed.

- ▮ The Qeedji PowerPoint Publisher For Media Players PowerPoint Add In can deal with several SMA300 devices with the same MS-PowerPoint presentation.
- ▮ In this version, only the SMA300, whose WebDAV servers are available with the http:// scheme (default value), are supported.

Prerequisite:

- the SMA300 device needs to be purged from any existing App. It is advised to set the App mode to the Push WebDAV value. For further information, refer to the chapter § [Configuration > App](#).



## Qeedji PowerPoint Publisher For Media Players: installation

The Qeedji PowerPoint Publisher For Media Players PowerPoint Add In needs to be installed once:

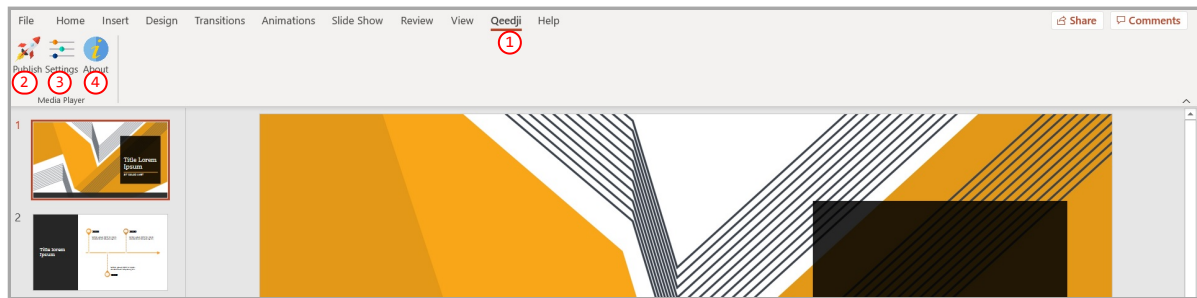
- download the appropriate installer (.msi file):
  - [Qeedji PowerPoint Publisher For Media Players \(nt\\_ia64\)](#) for your MS-Office (nt\_ia64),
  - [Qeedji PowerPoint Publisher For Media Players \(nt\\_ia32\)](#) for your MS-Office (nt\_ia32).
- execute the installer and choose the Everyone or Just for me installation according to your needs. For example, choose Just me ,
- click on Next button at each step by checking the default installation settings.

▮ Choosing Everyone may require to run the PowerPoint with the Administrator rights to be able to inactivate the Qeedji PowerPoint Publisher For Media PLayers PowerPoint Add In afterwards.

▮ Warning: one installation step is quite long and can take several minutes (for example 2 minutes, ) and may depend on the computer.

Open MS-Office PowerPoint and check that a Qeedji ① menu has appeared. Clicking on it makes appear a Qeedji ribbon which has 3 items:

- Publish ②,
- Settings ③,
- About ④.



▮ If the Qeedji menu does not appear after a successful installation, contact [support@qeedji.tech](mailto:support@qeedji.tech).

▮ In the Qeedji ribbon, click on the About ④ item to see the version of the Qeedji PowerPoint Publisher for For Media PLayers PowerPoint Add In.

▮ For older computer, it could be requested to install first .NET framework version 4.X.Y before installing the Qeedji PowerPoint Publisher for For Media PLayers PowerPoint Add In.

▮ The same language is used for Qeedji PowerPoint Publisher for For Media PLayers PowerPoint Add In interface and MS-Windows.

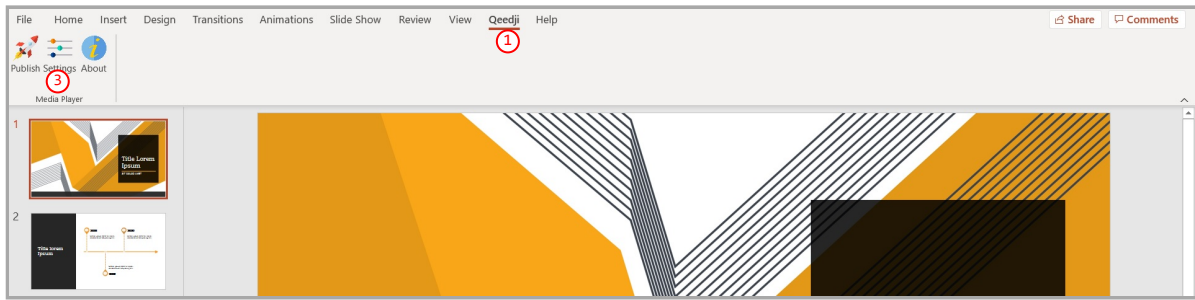
▮ In case you need to upgrade Qeedji PowerPoint Publisher for For Media PLayers PowerPoint Add In, it is required to close MS-Office PowerPoint and open it again to use the new version.

▮ In some rare cases, the warning message PowerPoint has problems with the Qeedji complement. If the problem persists, disable this add-on and check for updates. Do you want to disable it now? (yes/no) could be prompted when opening a MS-Office PowerPoint. In this case, do ignore the message by clicking No . It should not prevent the Qeedji PowerPoint Publisher for For Media PLayers to work properly.

## Qeedji PowerPoint Publisher For Media Players: Uninstallation

In case you need to uninstall Qeedji PowerPoint Publisher for For Media PLayers PowerPoint Add In, use the Add or remove programs Windows menu, then remove the Qeedji PowerPoint Publisher for For Media PLayers program.

## Qeedji PowerPoint Publisher For Media Players: register one or several devices



To register one or several SMA300 devices, open you MS-Office Powerpoint presentation then:

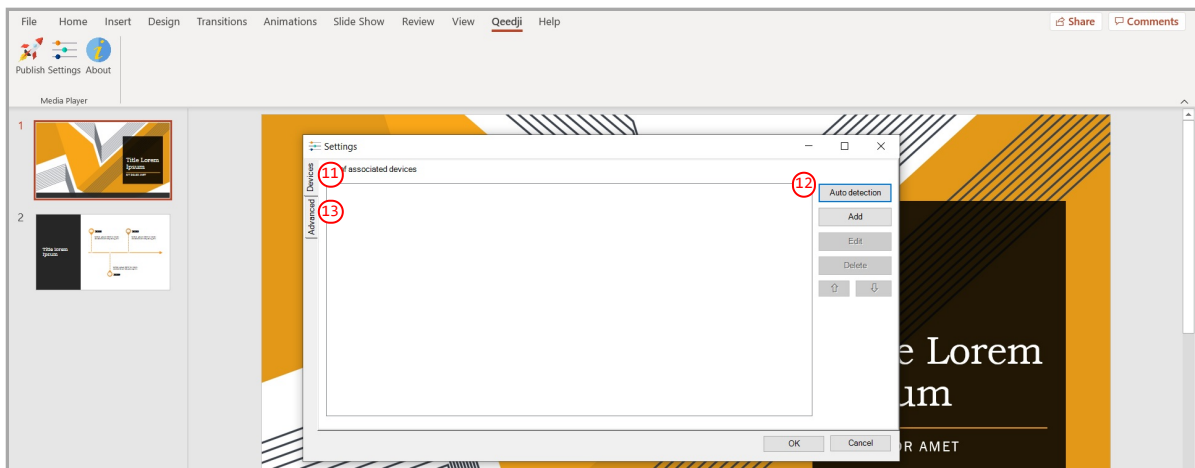
- click on the Qeedji ① menu,
- on the Qeedji ribbon, click on the Settings ③ item to access to the SMA300 device registering panel.

On the Advanced ⑬ tab, you can:

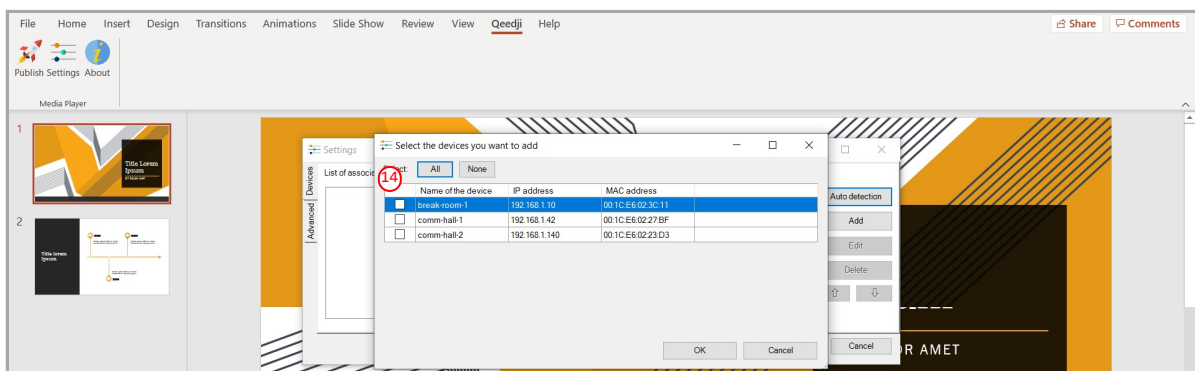
- force for manual transitions a automatic progression of <m> min <n> sec for slides having no duration per slide defined.
- define a Background color with a color picker. The background color is only used when the slide Size is not 16:9.

⚠ Some of the MS-PowerPoint transition effects may be not yet supported. For further information, refer to the media player release note.

On the Devices ⑭ tab, click on the Auto detection ⑫ button to detect the SMA300 devices available on your local network.



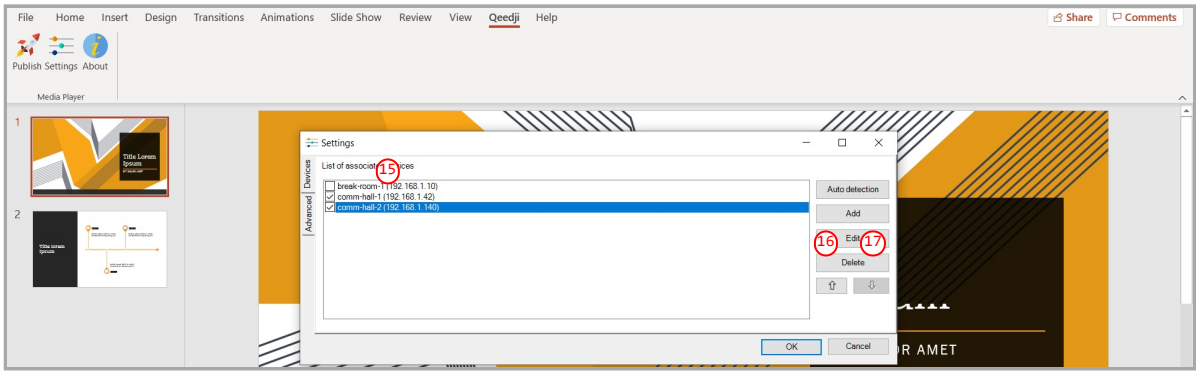
Select ⑭ the appropriate SMA300 devices to create a list of appropriate SMA300 devices as possible target for the MS-Powerpoint presentation.



Select then the only SMA300 devices on which you want to publish, by double clicking on them.

▮ The SMA300 devices sorting order in the list is decisive because it is taken into account during the publication. The slides of the first section, or the first 10 slides, are always affected to the SMA300 device located at the top of the list. Then the publication is continuing with the next SMA300 device located immediately below, and so on.

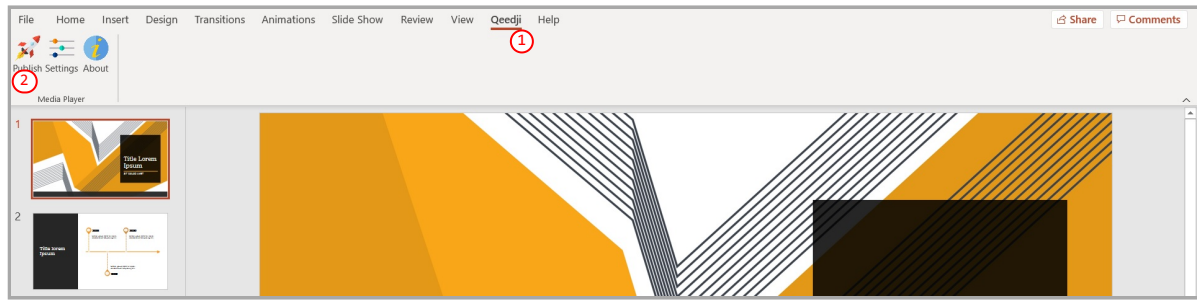
Select a SMA300 device and use the up ⑯ arrow or the down ⑰ arrow to sort them in the right order to match the MS-PowerPoint sections.



## Qeedji PowerPoint Publisher for For Media Players: publish

To publish a content on your media players through the SMA300 devices, open you MS-Office Powerpoint presentation. Then:

- click on the Qeedji ① menu,
- on the Qeedji ribbon, click on the Publish ② item.



Before publishing with the `Publish` item, it is advised to check in the `Settings` item, that the registered SMA300 devices are consistent and sorted in the right order.

The `Publishing status report` is showing whether the publishing on each SMA300 devices has succeeded or not:

- `Publishing succeeded` : the publication has succeeded
- `Publishing failure (Error: 503)` : the publishing has failed. In this case, check the network connection between your computer and the SMA300.

`Publishing status report` example:

```
1/2 - Publishing on device: comm-hall-1 (192.168.1.42)
      Publishing succeeded

2/2 - Publishing on device: comm-hall-2 (192.168.1.140)
      Publishing succeeded

Publishing completed
Warning - Unable to find the following fonts:
Arvo, Montserrat Black
```

The `Publishing status report` is showing also whether the MS-PowerPoint medias can be rendered with the right fonts. In case some fonts can not be found on the Windows OS, a message `Warning - Unable to find the following fonts` is displayed followed by the missing fonts names. To solve the rendering issue, install the missing fonts on your Windows OS and publish again.

### Information on fonts

- The default Windows font are installed here: `C:\Windows\Fonts`
- The custom fonts installed by the user are installed here: `C:\Users\\AppData\Local\Microsoft\Windows\Fonts`

To add a font to your Windows, retrieve the appropriate custom font (.ttf most of time) where you can, double click on it to install it on your Windows OS. Publish the PowerPoint again.

### REPLACE A CUSTOM FONT BY ANOTHER ONE IN THE WHOLE POWERPOINT DOCUMENT

If you don't manage to retrieve the font, you can decide to replace the missing custom font by another one, existing this time, in the whole PowerPoint document. In this case, use the `Home > Replace > Replace Fonts PowerPoint` menu.

### ADDIN UNINSTALLATION

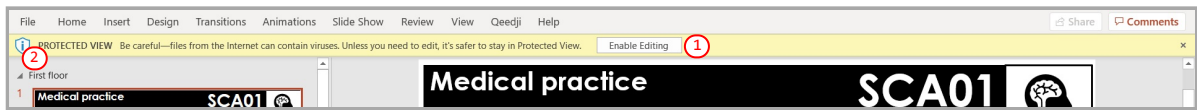
To remove the Qeedji PowerPoint Publisher for Media Player addin from your Windows OS, use the `Add or remove programs Windows` menu, then remove the program Qeedji PowerPoint Publisher for Media player .

### MISCELLANEOUS

- The scheme `https://` is not supported in this version
- When the App Qeedji PowerPoint Publisher for Media Player is not supported by a device (older OS, Smart monitor), the message below is displayed

```
Information
The App "Qeedji Powerpoint Publisher for Media players" is not supported on this device
```

The `protected view` may prevent to publish properly by returning this error: `Publishing failure (Error: Unable to save a copy of the current document)` ①. To work around, click on the `Enable editing` ② button before publishing.



The PowerPoint presentation slideshow is now running on the media players.

## User interactivity

The user interactivity with key pressed is supported as soon as the PowerPoint presentation is played on the media player.

If the CEC is activated on your screen, and the CEC passthrough properly supported:

- Press on the `RIGHT ARROW` key of the screen remote control to go to the next slide,
- Press on the `LEFT ARROW` key of the screen remote control to go to the previous slide,
- Note: some screen may require to select again the video input so that the CEC works properly.

If not, you can plug an USB keyboard:

- Press on the `RIGHT ARROW` key of the USB keyboard to go to the next slide,
- Press on the `LEFT ARROW` key of the USB keyboard to go to the previous slide,
- Enter the slide number (for example: the number 4) then press `ENTER` to go ahead to a specific slide no.

⚠ Gekkota 4 allows to display/undisplay automatically the test card when pressing the key combination: `LEFT ARROW`, `RIGHT ARROW`, `LEFT ARROW`, `RIGHT ARROW` in less than 10 seconds and could lead to unexpected along the presentation. To inactivate this feature, set the user preference `innes.player.mire.key-event.*.authorized` to `false`.

## Screen standby

To program a screen standby task with recurrency, for example from 8.00 PM to 7.00 AM the day after, use the device `Power Manager` feature. For further information, refer to the chapter § [Configuration > Task](#).