Qeedji

User manual 001B SMA300

4.13.11



Legal notice

SMA300 4.13.11 (001B_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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4.1

Contacts

1.1 Introduction

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

Recommendations and warnings

This device is designed to be used indoor.

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.

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
Device	SMA300 with Gekkota embedded.
One power supply unit	12V power supply unit with cable of 1.2m.
Labels	One on the cardboard packaging and one at the back of the product. Additional label can be present in case build-in options.
One WLAN antenna	To be screwed on the dedicated WLAN locations (provided with the device when it is supporting the WLAN option).
One WWAN antenna	To be screwed on the dedicated WWAN locations (provided with the device when it is supporting the WWAN option).

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.



1.2.2 Device dimensions



1.2.3 Labelling

The serial number of the device can be requested in case of technical support.

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



This is the label stuck also on the cardbox. They are showing information on:

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



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

1.2.4 Device start-up step



1.2.5 Testcard

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



Disable the Test Card by using the WebUI.

If your monitor does support the CEC with its pass-through feature, the test card can be activated or inactivated thanks to the monitor 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	OK: Power supplied
Off	Error: Power supply issue ¹

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	ок
Always Off	Error: Power supply issue ¹

Step 2: Device start-up finalisation

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

• Step 3: Nominal mode

State	Information
Green blinking: 1 very short flash (300 ms) spaced 4 seconds apart	ок
Green blinking: 2 very short and consecutive flashs (300 ms) spaced 4 seconds apart	Warning: Fail Soft Mode Level 1 Frequent device reboot detected (for example 4 times in less than ½ hour) Message is displayed on the monitor: «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 invalided. The message displayed on the monitor indicates that a new publication is needed to go ahead. ²
Green blinking: 3 very short and consecutive flashs (300 ms) spaced 4 seconds apart	Warning: Fail Soft Mode Level 2 Frequent device reboot detected (for example 4 times in less than ½ hour) Content is purged Message is displayed on the monitor «Fail Soft Mode: waiting for new content ». The instability has been caused probably by a content not supported yet by system or a 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 monitor indicates that a new publication is needed to go ahead. ²
Green blinking: 4 very short and consecutive flashs (300 ms) spaced 4 seconds apart	Warning: Check disk 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 monitor. ³
Green blinking: 5 very short and consecutive flashs (300 ms) spaced 4 seconds apart	Warning: errors on system partition The user has to connect to device WebUI, go to Maintenance > Tools menu, and press button Format or Repair to solve the problem. ³
Green blinking: 6 very short and consecutive flashs (300 ms) spaced 4 seconds apart	Warning: a firmware upgrade is pending During this phase, no content is played on the device, do not switch OFF the device.
Green blinking: 7 very short and consecutive flashs (300 ms) spaced 4 seconds apart	Error: write problem on the storage For an unknown reason, your storage space isn't usable any more. ³
Off	Error. ¹

¹ If the problem persists in despite of an appropriate power-supply, contact support@qeedji.tech. ² If the problem persists, it is recommended to find out the media not supported yet by the system and remove it from content. ³ If the problem persists after a partition repairing, contact support@qeedji.tech.

1.4 Connectors pin-out

Power supply connector (12VDC-0.6A)



LAN connector

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



Audio Jack 3.5mm connector (stereo L+R)

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



Jack 3.5mm connector (GPIO1/IR)



N°	Name	Write/Read	Control
1	Voltage reference 3.3V		
2	GPI01	IN or OUT	CPU/GPIO1
3	Ground		

Electrical features

	Vin min	Vin max	VOH min	VOH max	IOH max	VOL max	IOL max	VIH min	VIL max
GPIO1	-0.5V	3.8V	3.1V (@ 20uA)	3.3V	-100A	0.6V (@ 2mA)	5mA	2.35V	0.8V

The 3.3V pin must not be used as a power supply, but rather as a reference voltage.

It has a rearmable fuse (350mA @ 20°C)

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

During boot, the GPIO1 is configured in input during some seconds. And then after the system startup, the GPIO1 is operational.

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

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 WebUI 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 mode infrared
if (aDirection == "disable")
{
    Services.prefs.setBoolPref("system.connector.jack35_1.1.io.uart_1.enabled", true);
}
else //Set Jack 3.5 mode GPIO
{
    Services.prefs.setBoolPref("system.connector.jack35_1.1.io.uart_1.enabled", false);
}
// Set the Jack 3.5 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("innes.app-profile.gpio-input.jack35-gpio_1.jack35_1.*.authorized", true);
}
else if (aDirection == "in")
{
    Services.prefs.setBoolPref("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", true);
    Services.prefs.setBoolPref("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", true);
    Services.prefs.setBoolPref("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", true);
    Services.prefs.setBoolPref("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", true);
    Services.prefs.setBoolPref("innes.app-profile.gpio-output.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("innes.app-profile.gpio-input.jack35-gpio_1.jack35_1.*.authorized", false);
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("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("innes.app-profile.gpio-output.jack35-gpio_1.jack35_1.*.authorized", false);
Services.prefs.setBoolPref("innes.app-profile.gpio-input.jack35-gpio_1.jack35_1.*.a
```

2.1 Configuration Web interface

The SMA300 device has a web-based configuration 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 configuration Web interface and the Web server are:

- login: admin,
- password: admin.

SMA300 by Qeedji		
ndex of /.playout/	/ 🛃	
Name	Last modified	Size
1 Parent dire	ctory -	-
manifest.xn	nl Mar 26, 2020, 5:01:42 PM	764 0

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 configuration web 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 configuration web interface,
- .playout/ : location to store the App is hosted when deployed on the device,
- .log/ : location to store the application logs, when they are activated.

Administration console

Click on the Administration Console button to access the device configuration interface.

1	5MA300 by Qeedji			Reboot the device	English	~
Configu	ration	 Configuration > Admin 	nistrator			
2 5	Administrator LAN	Hostname:	sma300			
(î:	WLAN	Identification method:	MAC			
×*	WWAN Output	Administrator name:	admin			
5	Арр	Password:	*****		0	C
₽	Servers License	Confirm password:	•••••			0
0	Date and time					
۲	Regionality					
	Tasks					
\$()	Variables					
	AV Command					
Mainten	ance	~				
Informa	tion	~				

With the button at the top right corner, choose the language in which your web interface should be displayed. The supported languages are:

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

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

After you have changed and saved all your settings in the different panes, be sure to perform a restart of the device by clicking 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 main page.

▲ 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 a Ethernet cable on the device and connect to the device Web interface with its IPV6 address, which can be found on the test pattern displayed on the monitor.

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, click on the link to the Qeedji site

2.1.1 Configuration > Administrator

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

- the hostname, •
- the login credentials, ٠
- the device identification method:
- MAC (default),
- Hostname, • UUID.

1	5MA300 by Qeedji			Reboot the device	English	
Configu	ration ^	🂁 Configuration > Admi	nistrator			
<u>م</u> ح	Administrator LAN	Hostname:	sma300			
÷	WLAN	Identification method:	MAC			
Ā	Output	Administrator name:	admin			
5	Арр	Password:	•••••		0	0
ā,	License	Confirm password:	•••••		0	0
0	Date and time					
*	Tasks					
\$()	Variables					
Mainten	AV Command					
Informa	tion ~					

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

It is recommended that you enter a 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).

2.1.2 Configuration > LAN

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

1	SMA300 Rebot the devic English Configuration \$ Configuration > LAN Validate Cencel Administrator • Obtain IP address automatically by DHCP: Pause between packets: - 5 + seconds * WLAN Number of connection attempts: • Output Use the following IP address: • App IP address: • Subnet mask: 255,255,00 • Obtain default gateway automatically by UPP IGD • Regionality Default gateway: • Pause Obtain default gateway: • Number • Obtain default gateway: • Number • Obtain default gateway: • Obtain default gateway: 192168.160.6 • Regionality Default gateway: • Number • Va • Authentication method: EAP TLS • Authenticate required, client certificate required		h ×				
Configu	ration ^	5 Configuration > LAN				Vat	idate Cancel
SMA300 Reboot the device English Configuration S Configuration > LAN Validation > LAN Administrator Obtain IP address automatically by DHCP: Pause between packets: - 5 + seconds WLAN Number of connection attempts: - 10 + - Output Use the following IP address: - 10 + Output Use the following IP address: - 10 + Servers Subnet mask: 255.255.05 - English Obtain default gateway automatically by UPNP IGD Default gateway: 192.168.160.6 English Tasks IGMP: V2 • V3 V3 Security 802.1X Au -							
) (WLAN	Pause between packets:		-	5 +	- seconds	
°A°	WWAN	Number of connection a	ttempts:	- 3	10 +	•	
	by Caedifi yuration yuration <t< th=""></t<>						
9	Арр	IP address:		160.2			
₽ α,	Servers License	 Configuration > LAN Obtain IP address automatically Pause between packets: Number of connection attempts: Use the following IP address: IP address: 192. Subnet mask: 255. Obtain default gateway auto Default gateway: 192. IGMP: V2 V3 Security 802.1X Authentication method: EAP TLS 	255.255.				
0	Date and time	 Obtain IP address automatically by DHCP: Pause between packets: – Number of connection attempts: – Use the following IP address: IP address: 192.168.160.2 Subnet mask: 255.255.255.0 Obtain default gateway automatically b Default gateway: 192.168.160.6 IGMP: V2 V3 Security 802.1X ~ – Authentication method: EAP TLS 			JPnP IGD		
۲	Regionality	Default gateway:	192.168.1	160.6			
Ē	Tasks	IGMP: 🔿 V2 💿 V3					
\$()	Administrator S Configuration > LAN Validate C Administrator C Obtain IP address automatically by DHCP: Pause between packets: - 5 + seconds WLAN Number of connection attempts: - 10 + Output Use the following IP address: 10 + Output Use the following IP address: 192,168,160.2 Servers Subnet mask: 255,255,255.0 Icense Icense Obtain default gateway automatically by UPNP IGD Default gateway: 192,168,160.6 Icense Icense Obtain default gateway: 192,168,160.6 Icense Icense						
and	AV Command	Authoritication mothod				Tructed cortificate required client cortificate required	
Mainten	iance ~	Authentication method:	EAP ILS		~	Instea certificate required, client certificate required	
Informa	tion ~						

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 first be declared to your dedicated RADIUS server. Some identification methods require you to add a trusted certificate (the one used by your RADIUS server) and/or a client certificate (generated with the MAC address of your device and the trusted certificate of the RADIUS server); For more information, please contact your IT department.

w 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 the network anymore. To work around, you have to insert a USB stick containing a specific configuration script to set either a new certificate or update the device date and time.

w By default, the device is configured with DHCP activated. In case the end user doesn't have a DHCP server, after the DHCP timeout, the device ends up using the static IP address whose the default value is 192.168.0.2 when never changed yet by the end user.

2.1.3 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.

1	5MA300 vy Qeedji							Reboot the device	English	
Configur	ration ^	奈 Configuration > WLAN								
2	Administrator	WI AN								
5	LAN	Obtain IP address aut	omatically b	v DHCP:						
ŝ	WLAN	Pause between nacke	Dause between nackets:							
°Å°	WWAN	rause between packe					Seconds			
	Output	Number of connection	attempts:		10					
E	Арр	Use the following IP a	ddress:							
	Servers	IP address:	192.16	8.1.218						
a.	License									
0	Date and time	Subnet mask:	255.25	5.128.0						
۲	Regionality	Obtain default gat	eway autom	atically b	y UPnP IC	D				
	Tasks	Default gateway:	192.16	8.0.1						
\$()	Variables	IGMP: V2 💽 V3								
-	AV Command	SSID:							a	0 0
Mainten	ance ~	3310.		•					9	G
Information	tion ~	SSID Hidden								
		Connection mode: 🧿 In	frastructure	01	Adhoc					
		CI	hannel: Ch	annel 1, 1	2412 MHz					
		Security WPA2-Enterpr	ise (EAP)							
		Pairwise key cipher:	TKIP							
		Group key cipher:	TKIP							
		Authentication method:	EAP TTLS -	EAP TLS			Trusted certificate required, client	certificate required		

- Connection mode:
 - infrastructure: Allows you 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 you 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 broadcast over the network by your WIFI router. It also allows you 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.

🖝 Adhoc connection is not supported by all computer types. For more information, contact your IT department.

☞ Selecting the WPA-Enterprise (EAP) or WPA-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. Your device must first be registered inside your dedicated RADIUS server. Some identification methods may require you add a trusted certificate (the one used by your RADIUS server) and/or a client certificate (generated with the MAC address of your device and the trusted certificate of the RADIUS server); For more information, please contact your IT department.

The WLAN interface is not checked by default.

w 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 a automatic restart of the WLAN driver.

2.1.4 Configuration > Output

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

SMA300 by Qeedji			Reboot the device English \vee
Configuration ^	Configuration > Outpu	ut	
Administrator S LAN	Video output:	HDMI OUT 🗸	Rotation 0°
🗢 WLAN	Screen resolution:	1920x1080 50Hz CEA-861 V	y width
Output Output App Servers	720p SMPTE X:	O 1080p SMPTE	
LicenseDate and time	Width:	1280 + Height - 720 +	0 180°
Regionality Tasks S() Variables	Audio output:	AUDIO JACK35 L+R V	
AV Command	Volume: Mute:	deactivated or%	

- 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 pixels, 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 you 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.

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

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

Some monitors, 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 monitor even when choosing the right optiomal resolution for your monitor. To alleviate this problem, use the overscan on your <u>Qeedji</u> device to slightly reduce the width and height of your container. 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.

2.1.5 Configuration > App

An App is a custom application that, once loaded on the device, allows you to play a broadcast channel or play content that a user has programmed.

From the Configuration pane, select the App menu to select how the App is loaded.

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

- The Restart App or Purge App cannot work when Testcard is activated.
- In order to restart an App , the App must be present on the device.
- Local deposit : Allows you to load an App from the device's web interface and play its contents immediately.

1	5MA300	Reboot the device English ~
Configu	ration ^	Configuration > App
\$ \$ \$	Administrator LAN WWAN Output	● Local deposit Restart the App ● → ● Push Webdav ● ↓ ● Pull Webdav ● ↓ ■ Pull Webdav - XPF compatibility
□ □ Q	App Servers License Date and time	
(Regionality Tasks	Drop file here or click to add one
\$() ***	Variables AV Command	
Mainten Informa	ance $\stackrel{\vee}{}$ tion $\stackrel{\vee}{}$	

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

Configu	ration ^	🖯 Configuration > App	Validate Cancel
2	Administrator		
5	LAN	Local deposit Restart the App	
Ŷ	WLAN		
	Output	□ □ ← ■ Pull Webday - XPF compatibility	
5	Арр		
	Servers		
Q.	License		
0	Date and time		
۲	Regionality	Drop file here or click to add one	
	Tasks		
\$()	Variables		
100 M	AV Command		
Mainten	ance ~	App.tar.gz	
Informa	tion ~	Load the App	

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

▶ App development 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 more information, contact support@qeedji.tech.

Push WebDAV : Configure the device to receive a published App from any WebDAV client or compatible software suite. Once the App is received, its content is immediately played.

SMA300 Reboot the device English Configuration Image: Configuration > App Validate Administrator Image: Configuration > App Image: Configuration > App Maintenance Image: Configuration > App Image: Configuration > App Maintenance Image: Configuration > App Image: Configuration > App				
SMA300 Reboot the device English Configuration Configuration > App Configuration > App App Local deposit Restart the App Servers License Date and time Regionality Tasks S() Variables AV Command		Validate	Cancel	
Administrator LAN WWAN Output	□ □ □ □ Restart the App □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			
 App Servers License Date and time Regionality Tasks Variables AV Command 				
Maintenance ~ Information ~				

To find out which software suites are capable of publishing an App on Qeedji devices, contact support@qeedji.tech.

Pull WebDAV : allows you to configure the device so that it can regularly retrieve an App from a remote WebDAV server. Once the App is retrieved, its content is immediately played.

SMA300 by Qeedji	Reboot the device	English 🗸
Configuration ^	Configuration > App	
Administrator LAN WLAN WWAN Output	□ □ </th <th>evice English v</th>	evice English v
 App Servers License Date and time 	Heartbeat: © 00:01:00	
 Regionality Tasks () Variables AV Command Maintenance 	Password: ••••••• Image: Second Se	2 (⊚
Information		

Fill in the fields below correctly:

.

- URL : URL of the remote server's WebDAV frontend. For example: URL : http://domain:8080/.directory/
- ID/Password : login and password of the remote server's WebDAV frontend.
- heartbeat: in HH:MM:SS format, time 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 + Suffix .setup/.
 - the diffusion of the device status:
 - URL + Suffix .devices-status/.
 - if disabled, this allows you to set specific remote server URLs.

The user preference innes.app-profile.addon-manager.*.*.http-downloader.validity-calendar allows to store the contents 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.

Pull WebDAV - XPF Compatibility : allows you 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.

1	SMA300 yy Qeedji			Reboot the device	English	~
Configu	ation ^	🗑 Configuratio	n > App		Validate	Cancel
SMA300 by Creeding Configuration Administrator LAN Very WWAN Output App Servers License Date and time Regionality Tasks Variables AV Command			Local deposit Restart the App Push Webdav Putl Webdav Pull Webdav - XPF compatibility Purge the App			
0 ₽ 0 2	Servers License Date and time	Protocol: IP address:	http 192.168.1.52			
 	Regionality Tasks Variables AV Command	Port: Heartbeat:	- 80 + © 00:01:00			
Mainten Informa	ance ~ tion ~					

■ 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 to connect to the remote server (default: 1 minute).

App examples

Application for programmes broadcasting (Push WebDAV and Pull WebDAV)

HTML Apps are available to broadcast a program in a media skin, according to a programming schedule. Depending on your type of media players, content transitions are supported. Complete software suites compatible with the Push WebDAV or Pull WebDAV mode are also available to help you regularly update the programming of your broadcast channel. For further information, contact support@qeedji.tech.

App for resource reservation display (Push WebDAV and Pull WebDAV)

By regularly connecting to your calendar system, some avaiable HTML Apps, compatible with the media players, are able to display the ressources reservation of your company, like meetings, vehicules... For further information, contact support@qeedji.tech.

Qeedji PowerPoint publisher for media players (Push WebDAV). Once this PowerPoint Add-on is installed on your computer, it allows you to:

- easily discover the compatible media players available on your local network,
- select one or more of them,
- publish a PowerPoint of communication on each of your media players. For more information, contact support@geedji.tech.

2.1.6 Configuration > Servers

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

	by Qeedji									Reb	boot the device	Eng	lish	
onfigu	ration ^	Configuration >	Servers											
2	Administrator	Status, installat	ion and co	onfigurations	servers	5								
5	LAN	Status serv	er:											
î	WLAN	Url:	http://c	ustom-domair	n-url/.c	levice-status/								
°Å°	WWAN	lleartheat												
	Output	Heartbeat:												
9	Арр	Username:	players											
<u>a</u> .	License	Password:		•									0	0
0	Date and time	Softwares a	und config											
	Regionality	Urb												
	Tasks	UIL.												
\$()	Variables	Heartbeat:												
	AV Command	Username:	players											
ainten	nance ~													-
forma	tion ~	Password:		•									٢	0
		DNS Servers												
	Obtain DNS server address automatically													
		 Use the foll 	owing DN	IS server addre	ess:									
		Preferred DNS	server:	8.8.8										
		Altornate DNC												
		Allemale DNS	Attendate Divis Sciver.											
		DNS suffixes:												
		NTD time co	nuor.											
		─ ■ NTP time se	rver											
		NTP Server:			fr.po	ool.ntp.org								
		Maximum nun	nber of tri	ies:	-	5	+							
		Maximum wai	ting time	for each try:	-	10	+	seconds						
		Proxy server Manual pro	's xv configi											
		HTTP	Ny comise											
		Address:						Port:		8080				
		Username:						Password:					0	0
		HTTPS												
		Address:						Port:						
		Username:						Password:					0	3
		ETD												
		Address:						Port:						
													-	~
								Password:					0	G
		Username:												
		Username: No proxy for:												
		Username: No proxy for: Delivery	server	Statu	is serv	er 📃 Sot	twares a	and configurations	nstallatio	n server				
		Username: No proxy for: Delivery Others:	server	🔲 Statu	is serv	er 📃 Sot	twares a	and configurations	installatio	n server				
		Username: No proxy for: Delivery Others: localhost	server	Statu	is serv	er 📃 Sof	twares a	and configurations	installatio	n server				
		Username: No proxy for: Delivery Others: localhost Example: in	, 127.0.0.1	Statu	s serv	er 🗌 Sot	twares a	and configurations	installatio	n server				
		Username: No proxy for: Delivery Others: Iocalhost Example: ini	server , 127.0.0.1 nes.pro, 19	Statu	s serv	er 🔲 Sot	twares a	and configurations	installatio	n server				

• 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 you to set a time server in order the device is always on time ¹.
- Proxy server.

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

2.1.7 Configuration > License

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

1	MA300 y Qeedji		Reboot the device	Englis
Configur	ation ^	A _★ Configuration > License		Vali
2	Administrator	•		
5	LAN	License:		
ŝ	WLAN			
°A°	WWAN			
	Output			
5	Арр			
100	Servers			
a.	License			
Θ	Date and time			
٩	Regionality			
	Tasks			
\$()	Variables			
and	AV Command			
Mainten	ance 🗸			
Informa	tion ~			

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 monitor. In this case, please re-enter the license for your device.

2.1.8 Configuration > Date and time

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

1	5MA300 by Qeedji				Reboot the device	English	
Configu	ration ^	⊖ Configuration > Da	te and time				
2 5	Administrator LAN	Time zone:	Europe / Paris				
Ŷ	WLAN	UTC date and time:	© 3/25/2020 12:34 PM				
××*	WWAN Output	Local date and time:	3/25/2020, 1:34 PM				
5	Арр						
i a	Servers						
0	Date and time						
۲	Regionality						
() ()	Tasks						
₽()	AV Command						
Mainten	ance \vee						
Informa	tion ~						

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

re Resetting the time involves a restart of the device. If you have several configuration settings to change, it is advisable to set the last time just before restarting the device.

2.1.9 Configuration > Regionality

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

1	SMA300 by Qeedji			Reboot the device	English \vee
Configu	ration ^	Ø Configur	ation > Regionality		
2	Administrator				
5	LAN	Language:	English 🗸		
(î	WLAN				
°A°	WWAN				
	Output				
U	Арр				
	Servers				
9	License				
0	Date and time				
۲	Regionality				
t	Tasks				
\$()	Variables				
-	AV Command				
Maintenance 🗸					
Informa	tion 🗸				

The supported languages are:

- English,
- Spanish,German,
- French.

2.1.10 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.

-	SMA300 by Qeedji			Reboot the device	English	~
Configu	ration ^	iii Cor	nfiguration > Tasks		Validate C	lancel
2	Administrator LAN	٢	Reboot Manager			+
€ %	WLAN WWAN	E	Task 1		Ø	Ū
Ē	Output App		From 3/25/2020 To 4/25/2020 or Every days			
	Servers		Recurrences		+	
<i>4</i> ⊙ ⊗	License Date and time Regionality		Sun Z Mon Z Tue Ved Z Thu Z Fri Z Sat		Ē	
\$()	Tasks Variables AV Command					
Maintenance \checkmark Information \checkmark						

It is therefore possible to program in time several reboot occurrences whose parameters are stored in an ICAL format in the user preference 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 \mathfrak{D} button and then the + button.

by Qeedji		Reboot the device	English	
Configuration	^	iii Configuration > Tasks	Validate C	ancel
💁 Administ	trator			
5 LAN		Power Manager		+
🗢 WLAN		 (a) 		1 th
[®] ≹ [®] WWAN		Task 1	Ø_	Ш
🖵 Output		From 3/25/2020 To 4/25/2020 or Every days		
😇 App				
Servers		Energy consumption profile Very highly optimized \lor		
🔍 License				
🔿 Date and	d time	Recurrences	+	
Regional	lity	🜌 Sun 🜌 Mon 🜌 Tue 🜌 Wed 🜌 Thu 🖾 Fri 🖾 Sat		
🗰 Tasks		From © 20:00 To © 08:00 or All day long		
\$() Variables	s			
🔊 🗛 AV Comn	nand	Exceptions	+	
Maintenance ~				
Information	~			

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:20190805T120000 DTEND:20190805T120000 RRULE:FREQ=WEEKLY;BYDAY=MO,TU,WE,TH,FR,SA,SU;UNTIL=20200416T0000 END:VCALENDAR 🖝 The Power Manager task scheduled at the web 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	<pre>innes.power-manager.level.min.<>.mute = true</pre>
Screen: off	<pre>innes.power-manager.level.min.<>.power-mode = 0</pre>
Volume: 0%	<pre>innes.power-manager.level.min.<>.volume = 0</pre>
Opacity: 100%	<pre>innes.power-manager.level.min.<>.opacity = 100</pre>
Brightness: 0%	innes.power-manager.level.min.<>.brightness = 0
Backlight: 0%	<pre>innes.power-manager.level.min.<>.backlight = 0</pre>

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	<pre>innes.power-manager.level.low.<>.mute = false</pre>
Screen: on	<pre>innes.power-manager.level.low.<>.power-mode = 1</pre>
Volume: 10%	<pre>innes.power-manager.level.low.<>.volume = 10</pre>
Opacity: 80%	<pre>innes.power-manager.level.low.<>.opacity = 80</pre>
Brightness: 10%	innes.power-manager.level.low.<>.brightness = 10
Backlight: 10%	<pre>innes.power-manager.level.low.<>.backlight = 10</pre>

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	innes.power-manager.level.high.<>.mute = false
Screen: on	<pre>innes.power-manager.level.high.<>.power-mode = 1</pre>
Volume: 80%	innes.power-manager.level.high.<>.volume = 80
Opacity: 20%	<pre>innes.power-manager.level.high.<>.opacity = 20</pre>
Brightness: 80%	innes.power-manager.level.high.<>.brightness = 80
Backlight: 80%	innes.power-manager.level.high.<>.backlight = 80

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	<pre>innes.power-manager.level.max.<>.mute = false</pre>
Screen: on	<pre>innes.power-manager.level.max.<>.power-mode = 1</pre>
Volume: 100%	<pre>innes.power-manager.level.max.<>.volume = 100</pre>
Opacity: 0%	<pre>innes.power-manager.level.max.<>.opacity = 0</pre>
Brightness: 100%	<pre>innes.power-manager.level.max.<>.brightness = 100</pre>
Backlight: 100%	innes.power-manager.level.max.<>.backlight = 100

The values of these user preferences are all modifiable.

2.1.11 Configuration > Variables

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

1	5MA300 by Qeedji			Reboot the device	English	~
Configu	ration ^	\$() Cont	iguration > Variables			
2	Administrator	Custom	device variables:			
ب ج	WLAN	field1:				
°A*	WWAN	field2:				
Ţ	Output	folda				
5	Арр	neta3:				
	Servers	field4:				
04	License	field5:				
0	Date and time	netus.				
()	Regionality					
Ē	Tasks					
\$()	Variables					
	AV Command					
Maintenance \vee						
Informa	tion ~					

The variable names are:

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

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

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

2.1.12 Configuration > AV commands

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

- RS232,
- ETHERNET,
- HDMI.

AV Command name	Description
brighness	screen brightness control
mute	mute control
power-mode	screen saver control
back-light	screen backlight control
video-input	display audio-video source selection control
volume	display volume control
custom-commands	control of specific 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.

by Qeedji			Reboot the device	English
Configuration				
 Administrator LAN WLAN WWAN Output App Servers License Date and time Regionality Tasks 	USB USB uart_1: 9600, 8, N, 1, OFF Protocol: samsung_m1 Feature brightness mute power-mode custom-commands backlight	Image: Constraint of the second of the se	LAN Port: 1000 Hosts: 192.168.0.2 Protocol: ge_m1 o Feature brightness mute power-mode custom-commands backlight	Allow Allow 2 2 3 3 4 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3
\$() Variables AV Command Aaintenance nformation	video-input volume		video-input volume	
	Feature	Allow	Feature	Allow
	video-input mute		power-mode video-input	
	power-mode			
	volume			
	backlight			
	custom-commands			
	brightness			

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 monitor 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 monitor.

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

r 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 \bigstar 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.

recheck beforehand in the datasheet that your monitor 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 monitor.

First check in the datasheet of your monitor 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 ④ or duplicate an existing protocol with the button ④ 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.

A Some screens 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.

2.1.13 Maintenance > Testcard

From the Maintenance pane, select the Testcard 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.

SMA300 by Qeedji			Reboot the device	English	~
Configuration		Imaintenance > Test card			
Maintenance	^	Test Card: deactivated			
Test card					
Middleware					
🖻 Logs					
X Preferences					
Tools					
Information \vee					

Activation of the test pattern through your monitor supporting CEC

If your monitor supports the CEC¹² on HDMI, you can enable or disable the test pattern by pressing a key combination on the monitor'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 monitor.

w Before applying the keystroke combination, some monitors require you to deselect and then select the HDMI source of the display to which the device is connected to force a CECSetInput_Source

¹ For SAMSUNG monitors, CEC is usually activated by activating the Anynet function. ² for LG monitors, 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)

2.1.14 Maintenance > Middleware

Connect to the device configuration Web interface by entering the URL in your Web browser. http://<device-ip-addr>/. From the Maintenance pane, select the Middleware menu to view the version of the middleware installed on your device.

1	SMA300 by Qeedji				
Configuration		~	Maintenance > Middleware		
Mainter	nance	^	Middleware: Gekkota OS - 41310		
	Test card		Select a middleware to upgrade the device:		
	Middleware				
601	Logs				
* Preferences					
-0-0-	Tools				
Information		~	Drop file here or click to add one		

• Corrective and evolutive maintenance software versions are regularly made available in the support tab of the official Qeedji website http://www.qeedji.tech. 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 configuration web interface and check the new Gekkota OS version number of the device.

🛆 Do not electrically disconnect the device during the firmware upgrade. For more information, refer to the chapter § LED behaviour.

2.1.15 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,
- support may ask you to activate other logs in exceptional cases.

🖛 These logs can only be interpreted 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.

by Qeedji						Reboot the device	English	
Configuration \vee		💩 Maintenance > Lo	gs					
Maintenance ^		Catagorias						
🗱 Test card		Categories						
Middleware								
🔤 Logs		Name:	арр	Leve	OFF			
* Preferences		O Name	widget	Leve	OFF			
Tools			Mager					
Information \vee		Level of logs of unde	eclared categories:	OFF	~			

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

 Δ After a debug session with support, in nominal operation, all levels should be reset to $\,$ OFF .

2.1.16 Maintenance > Preferences

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

SMA300 by Qeedji		Reboot the device Engli	sh \vee
Configuration		X Maintenance > Preferences	
Maintenance	^		
🗱 Test card		Filter:	
Middleware		Name of the preference	
📾 Logs		accessibility.accesskeycausesactivation	.0
🗙 Preferences		accessibility.browsewithcaret	
Tools		accessibility.browsewithcaret_shortcut.enabled	
Information	\sim	accessibility.force_disabled	
		accessibility.ipc_architecture.enabled	
		accessibility.mouse_focuses_formcontrol	
		accessibility.tabfocus	
		accessibility.tabfocus_applies_to_xul	
		accessibility.typeaheadfind	
		Restore factory pr	eferences 🔾

The filter allows you to list only those preferences whose name contains the string entered in the filter. All 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
innes.video.decoding-group.enabled	<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.
innes.video.decoding-group.enabled	true	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.
media.mediasource.enable	false	Disabling the DASH MSE.
innes.hid.pointer-event.*.authorized	true	Allows support for HDMI/USB touchscreens.
innes.video.has.max-bitrate	5	(Mbps) setting the maximum bitrate of a DASH Mpeg stream.
media.cache_size	16384 (default) to 65536	(in KB) Allows to support higher bitrate DASH Mpeg streams.
innes.webserver.providers.http.enabled	true	Allows to support access to the device in http://.
innes.webserver.providers.https.enabled	true	Allows to support access to the device in https://.

2.1.17 Maintenance > Tools

In the Maintenance pane, select the Tools menu to:

- Correct errors detected on the SD card data partition,
- format the data partition of the SD card.

The format and correct buttons are only accessible if the Gekkota OS middleware has actually detected write or read errors on the partition.

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

If the Correct button is accessible, clicking on the Correct button will repair the contents without rebooting an App. If the problem persists, and the Format button is available, clicking the Format button will format the contents. It is then necessary to republish an App.

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

2.1.18 Information > Device

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

SMA300 by Qeedji				Reboot the device	English	
Configuration	~	🚢 Information	n > Device			
Maintenance Information	~	Middleware:	Gekkota OS - 4.13.10 SMA300			
🚢 Device		Hostname:	sma300			
<u>i</u> Network		MAC:	00-1C-E6-02-14-E5			
Screens		UUID:	04b00009-0000-0000-001ce60214e5			
		PSN:	00750-00009			
		HDCP:	Not supported			

- 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.

2.1.19 Information > Network

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

SMA300 by Qeedji		Reboot the device	English	~
Configuration ~	Q Information > Network			
Maintenance	Delium status and installation commu			
Information	Delivery, status and instatution servers: Delivery server (G3): http://custom-domain-url/ Heartbeat: 00:01:00			
Device	Status server: http://custom-domain-url/.device-status/ Heartbeat: 00:01:00			
① Network	Softwares and configurations			
Screens	installation server: http://custom-domain-url/.setup/ Heartbeat: 00:01:00			
- T	NTP time server			
	NTP Server: fr.pool.ntp.org			
	LAN_1 Mac address: 00-10-F6-02-14-F5			
	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, 8.8.4.4			
	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:			

2.1.20 Information > Screens

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

by Qeedji			Reboot the device	English	
Configuration	~	Information > Screens			
Maintenance	~	Screen #1			
Device Device Network Screens		Connected: On IDMI UOU (ndmL) EDID: 00 FF FF FF FF FF FF F0 1E 6D 03 00 01 01 01 01 1E 17 01 03 80 7A 45 78 EA 7C 5B A6 54 4E 9A 26 0F 47 4A A1 08 00 B3 00 81 40 81 80 71 40 61 40 45 40 31 40 81 c0 02 3A 801 87 138 2D 40 58 2C 45 00 8F AE 42 00 00 11 A6 62 15 6A A5 10 01 E 30 46 8F 33 00 8F AE 42 00 00 18 00 00 00 FD 00 38 3C 1E 53 0F 00 0A 20 20 20 20 20 00 00 00 1F 00 00 00 FD 00 38 3C 1E 53 0F 00 0A 20 20 20 20 20 00 00 00 FC 00 4C 47 20 53 49 47 4E 41 47 45 0A 20 20 01 50 02 03 2A f1 4F 90 01 02 03 04 05 11 13 14 1F 20 22 5D 5E 5F 23 09 57 07			
		6D 03 0C 00 30 00 80 3C 20 00 60 01 02 03 83 01 00 00 02 3A 80 18 71 38 2D 40 58 2C 45 00 BF AE 42 00 00 1E 01 1D 80 18 71 1C 16 20 58 2C 25 00 BF AE 42 00 00 9E 01 1D 00 72 51 D0 1E 20 6E 28 55 00 BF AE 42 00 00 1E 02 3A 80 D0 72 38 2D 40 10 2C 45 20 BF AE 42 00 00 1E 00 00 00 00 00 00 00 00 00 00 00 00 00			

2.2 Configuration by script

The sma300 can auto-configure when it can load a configuration script. The configuration-by-script can be either hosted on remote WebDAV server, or broadcasted by your DHCP server (code 66) or injected with a USB storage device. For further information, refer to the configuration-by-script application note on the http://www.qeedji.tech.

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

2.3 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>4.13.10/modelNumber> <serialNumber>00920-00002</serialNumber> <middleware>gekkota-4</middleware>
<field1/>
<field2/> <field2/>
<field3/>
<field4/>
<field5/>
<ip-addresses> <ip-addresses>
<ip-addresses>
<if-type>LAN</if-type>
corigin>dhcp</origin>
<value>192.168.1.119/17</value>
</ip-address>
<ip-address>
<if-type>LAN</if-type>
corigin>auto </ip-addresss <addons/> </device> <status>
<date>2020-03-31T17:40:16.055055+02:00</date> <launcher> <power-manager level="MAX"/> <storage>
<total unit="byte">1912532992</total>
<used unit="byte">22161408</used> <dstorage> <display-outputs/> <configuration> <metadatas/> <version>2019-06-21T13:25:25Z</version> </configuration> </setup> </status> </device-status>

3.1 Technical specifications

Model		Manufacturer			
5544200		Occilii			
		Qeedji			
Processors					
CPU		Freescale iMX6			
GPU		Vivante			
Peripherals					
2x USB 2.0 Host (Low/Full/High Spec	ed)				
1x Jack 3.5 configurable in GPIO or I	nfrared				
Storage	Information				
Internal Flash Memory for OS					
SD card	Qualified SD cards: SANDISK / SDSI	DAA-032G / 32 GB, SANDISK / SDSDB-032G-B35 / 32 GB, SANDISK / SDSDAA-008G / 8 GB			
Middleware					
Gekkota OS 4					
Audio outputs	Audio outputs				
Jack 3.5 R+L stereo analog					
Embedded with HDMI output					
Video output					
1x HDMI 1.4					
Display resolutions for video outpu	t				
640x480 60Hz, 800x600 60Hz VESA, 1024x768 60Hz VESA, 1024x768 60Hz XGA, 1024x576 60Hz VESA, 1024x576 50Hz VESA, 1024x500 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, 1280x768 50Hz VESA, 1360x768 50Hz VESA, 130x768 60Hz VESA, 1376x768 60Hz VESA, 1376x768 50Hz VESA, 1376x768 60Hz VESA, 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, 1920x300 60Hz VESA, 128x96 60Hz, 112x96 60Hz, 96x96 60Hz,					
Network					
1x Ethernet 10/100 BaseT PoE					
Options		Information			
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
WIFI 802.11a/b/g/n (WIFI 4)	SPARKLAN WPEA-152GN(BT) mode

Power supply					
12V DC (600mA)					
PoE power (Power Over Ethernet)					
Operating temperature		Storage temperature			
+0°C to +35°C		-20°C to +60°C			
Operating humidity		Storage humidity			
< 80%		< 85%			
Weight	Dimensions (WxHxD)				
0,450 Kg	164 x 99 x 31 mm				
Warranty					
3 years					

3.2 Conformities

In conformity with the following European directives:

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

4.1 Contacts

For further information, please do not hesitate to contact us:

- by phone at +33 (0)2 23 20 01 62,
- by e-mail:
 - Technical support: support@qeedji.tech,
 Sales department: sales@qeedji.tech.

Refer to the Qeedji Website for FAQ, application notes, and software downloads:

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