Qeedji

User manual 001B SMH300

4.13.14



Legal notice

SMH300 4.13.14 (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

1 - Description and installation

Introduction	1.1
Getting started with the device	1.2
Device fixture	1.2.1
Device dimensions	1.2.2
Labelling	1.2.3
Device start-up step	1.2.4
LEDs behaviour	
Connectors pin-out	1.4

2 - Configuration

Configuration Web interface	2.1
Configuration > Administrator	2.1.1
Configuration > LAN	2.1.2
Configuration > WLAN	2.1.3
Configuration > SLATEs pairing	2.1.4
Configuration > Push buttons pairing	2.1.5
Configuration > Sensors pairing	2.1.6
Configuration > Busy lights pairing	2.1.7
Configuration > App	2.1.8
Configuration > Servers	2.1.9
Configuration > License	2.1.10
Configuration > Date and time	2.1.11
Configuration > Regionality	2.1.12
Configuration > Tasks	2.1.13
Configuration > Variables	2.1.14
Maintenance > Middleware	2.1.15
Maintenance > Logs	2.1.16
Maintenance > Preferences	2.1.17
Maintenance > Tools	2.1.18
Information > Device	2.1.19
Information > Network	2.1.20
Information > Wpan devices	2.1.21
Configuration by script	2.2
Appendix 1: Device status (status.xml)	2.3
Appendix 2: Qeedji PowerPoint publisher for SLATE	
Appendix 3: Img2slate tool	2.5
3 - Technical information	
Technical specifications	3.1
Conformities	3.2
4 - Contacts	

4.1

Contacts

1.1 Introduction

This manual explains how to install and configure your device SMH300.

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.

The Bluetooth system operates in the 2.4 GHz ISM¹ frequency bands, the operation of which does not require a licence due to the low transmission power and the low risk of interference. This frequency band is between 2402 and 2 480 MHz.

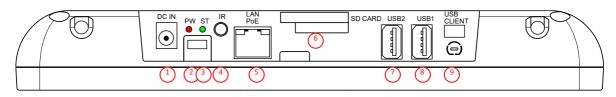
¹ Industrial, Scientific and Medical.

Content of the package

Items	Description				
Device	SMH300 with Gekkota embedded.	1			
Power supply unit	12V power supply unit with cable of 1.2m.	1			
Labels	One on the cardboard packaging and another one at the back of the product. Additional label can be present in case build-in options.	2			

1.2 Getting started with the device

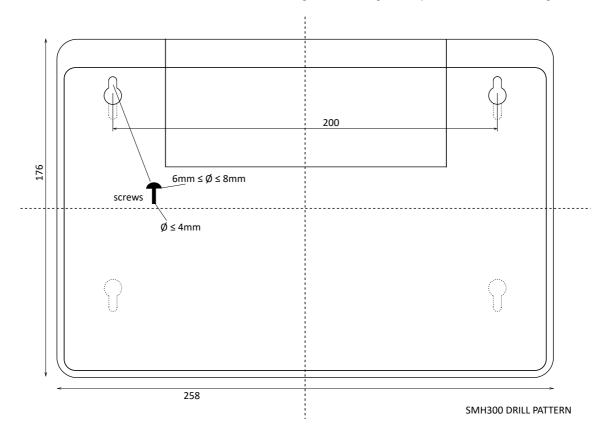
Top face

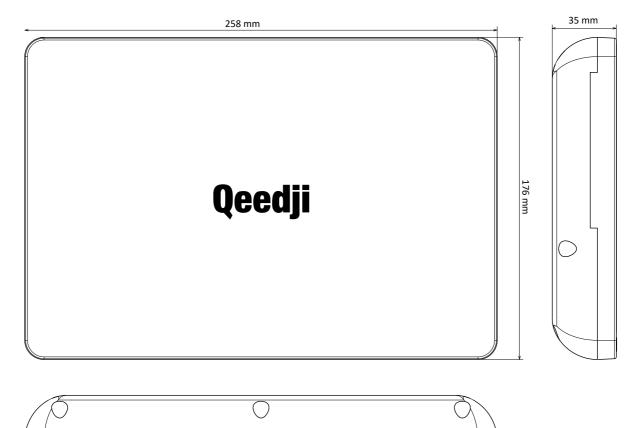


- 1 Power supply 12V DC,
- 2 Power supply red LED,
- 3 Status green LED,
- 4 GPIO1/IR connector,
- 5 LAN POE RJ45 connector,
- 6 SD Card connector,
- 7 USB2 2.0 Host connector,
- 🐻 USB1 2.0 Host connector,
- 9 WLAN antenna slot.

1.2.1 Device fixture

The bottom of the smh300 if often fixed at 220 cm far from the floor, oriented in the right sense, meaning cable output oriented towards the ceiling.

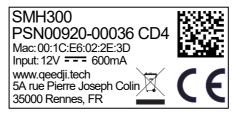




1.2.3 Labelling

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.



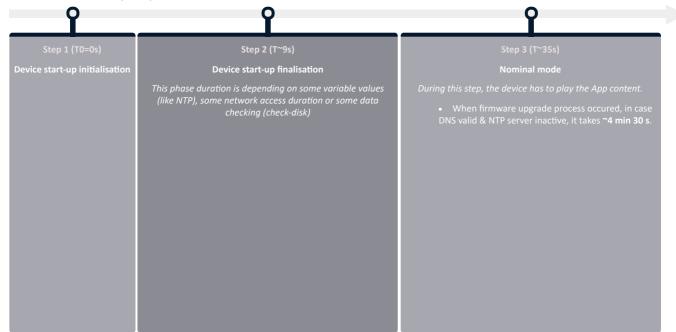
This is the label stuck also on the cardbox. They are showing information on:

- 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



1.3 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

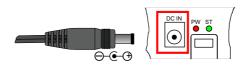
State	Information
Green blinking: 1 very short flash (300 ms) spaced 4 seconds apart	ок
Green blinking: 2 very short and consecutive flashs (300 ms) spaced 4 seconds apart	 Warning: Fail Soft Mode Level 1 Frequent device reboot detected (for example 4 times in less than ½ hour) Fail Soft Mode message is written on the device status.xml. The instability has been caused probably by a content media not yet supported by the Gekkota OS. Consequently, to prevent any further reboot, the content has been invalided. You are invited to remove the deficient media from your App and publish again 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 Fail Soft Mode message is written on the device status.xml. The instability has been caused probably by a content media not yet supported by the Gekkota OS. Consequently, to prevent any further reboot, the content has been invalided. You are invited to remove the deficient media from your App and publish again 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, the "checking the file system of data partition in progress" message is written on the device status.xml 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 <i>Maintenance > Tools</i> menu, and press button <i>Format</i> or <i>Repair</i> 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.

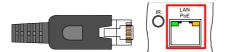
1.4 Connectors pin-out

Power supply connector (12VDC-1.2A)



LAN connector

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



Jack 3.5 mm connector (GPIO1)



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	VOL max	VIH min	VIL max
GPIO1	-0.5V	3.6V	2.9V	0.4V	2.0V	0.8V

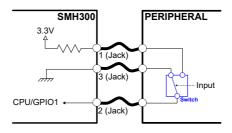
The 3.3V pin must not be used as a power supply, but rather as a reference voltage.

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

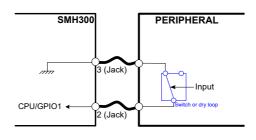
The GPIO has a weak pull-up.

It is not recommended to hotplug/unplug the GPIO1 connector, which could damage the device.

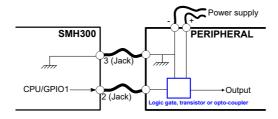
Three wires input configuration for GPIO1:



Two wires configuration for GPIO1:



Output configuration for GPIO1:



2.1 Configuration Web interface

The SMH300 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.

	SMH300 by Qeedji		
Inde	x of /.playout/ 🧧	-	
	Name	Last modified	Size
t	Parent directory	-	-
Ø] manifest.xml	Mar 30, 2020, 8:45:24 AM	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,
- .log/ : location to store the application logs, when they are activated.
- .output/: location of the respective ppk contents for the 10 SLATES device. This directory contains also a *screenshot.jpg* file, capture of the last viewport content. This file allows to show information message or error message. In case an information message is displayed (like *Error: invalid license* or *Information: no content*), the hub.ppk content could not be updated.

Content update Once paired to a SMH300, with the Index from 1 to 10, the SLATEs are programmed to get their new respective .ppk content to display on these SMH300 hub WebDAV directories:

http://<SMH300_IP_Addr>/.output/<index>/hub.ppk .

Click on a hub.ppk content (propriety format) since a Web browser to view it.

Administration console

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

-	SMH300 1 by Qeedji			Reboot the device	English	~
Configu	ration	💁 Configuration > Admi	🏂 Configuration > Administrator		(2)	
<u>م</u> ح	Administrator LAN	Hostname:	smh300			
	WLAN SLATEs Pairing	Identification method:	MAC			
3	Push buttons Pairing	Administrator name:	admin			
	Sensors Pairing	Password:	****			0
10 10	Busy lights Pairing	Confirm password:	•••••			0
	App Servers					
9	License					
0	Date and time					
۲	Regionality					
Ē	Tasks					
\$()	Variables					
Mainten	iance	~				
Informa	tion	~				

With the button at the top right corner (1), 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 SMH300 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 device restart by clicking the Reboot the device button so that your changes are fully reflected.

Click on the device $\log_{2}(2)$ 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 an Ethernet cable on the device and connect to the device Web interface with its IPV6 address.

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

1	SMH300 by Qeedji				Reboot the device	English	\sim
Configu	ration	~	Configuration > Admin	nistrator			
<u>م</u> ک	Administrator LAN		Hostname:	smh300			
○	WLAN SLATEs Pairing		Identification method:	MAC			
S	Push buttons Pairing		Administrator name:	admin			
₽, ₽	Sensors Pairing Busy lights Pairing		Password:	•••••			٢
5	Арр		Confirm password:	•••••			
≣ Q,	Servers License						
0	Date and time Regionality						
	Tasks						
\$() Mainter	Variables	~					
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 one unique Hostname value for each device. In case several SMH300 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:

	5MH300 by Qeedji					Reboot the device	English	~
Configur	ration ^	5 Configuration > LAN					Validate	Cancel
2	Administrator	Obtain IP address automati	cally by DHCP:					
5	LAN	Pause between packets:	5		seconds			
(?	WLAN	rause between packets.						
	SLATEs Pairing	Number of connection atter	npts: – 10					
S	Push buttons Pairing							
	Sensors Pairing	Use the following IP addres	S:					
Đ	Busy lights Pairing	IP address:	192.168.1.236					
5	Арр	Subnet mask:	255 255 420 0					
	Servers		255.255.128.0					
a.	License	Obtain default gateway	automatically by UP	1P IGD				
0	Date and time	Default gateway:	192.168.0.1					
()	Regionality							
iii	Tasks	IGMP: 🔿 V2 💿 V3						
\$()	Variables	Security 802.1X						
Mainten	ance ~	302.1A						
Information	tion ~	Authentication method: EA	P TLS		Trusted certificate required, clier	t certificate required		

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 one 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 DHCP server is not available, after the DHCP timeout, the device ends up using the static IP address whose the default value is 192.168.0.2 when it has not been 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.

	SMH300 by Qeedji						Reboot the device	English	
Configu	ration ^	Configuration > WLAN						Validate	Cancel
2	Administrator	WLAN-							
5	LAN	Obtain IP address auto	matically by	DHCP					
Ŷ	WLAN	Pause between packets							
	SLATEs Pairing	Pause between packets	5.	5		seconds			
3	Push buttons Pairing	Number of connection	attempts:	- 10					
1	Sensors Pairing								
Đ	Busy lights Pairing	Use the following IP ad	dress:						
5	Арр	IP address:	192.168	3.1.2					
	Servers								
a.	License	Subnet mask:	255.255						
0	Date and time								
()	Regionality	Default gateway:	192.168						
	Tasks								
\$()	Variables	IGMP: 🔿 V2 💽 V3							
Mainten	nance 🗸								
Informa	tion ~	SSID:							0
		SSID Hidden							
		Connection mode: • Inf	fractructure	Adhoc					
		Ch	iannel: Cha	annel 1, 2412 MH					
		Security WPA-Enterprise	e (EAP)						
		Pairwise key cipher:	ТКІР						
		Group key cipher:	TKIP						
		Authentication method:	EAP FAST			Trusted certificate required			

• Connection mode:

- infrastructure: Allows you to establish a WIFI connection between your device and a WIFI router:
 - Security:
 - None,WFP.
 - 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.

Mac 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.

2.1.4 Configuration > SLATEs pairing

In the Configuration pane, select the menu SLATEs pairing to pair the SLATEs devices to your SMH300 device.

	5MH300 oy Qeedji						Reboot	the devic	e Engl	ish	~
Configu	ration ^	□ [¶] Configuration > SLATEs Pairing									
2	Administrator			ctivate							
5	LAN		<i>"</i>								
ê	WLAN	SLATEs detected		SLATEs paire	d to this device	e	€		101	•	
	SLATEs Pairing	PSN Hostname RSSI Auth. State	\bigcirc	#	PSN	Hostname	RSSI	Quality	Auth.	State	Mode
S	Push buttons Pairing	Please click the 'activate' button to configure your SLATES.	_		Please cli	ck the 'activa	te' button	to configur	e your SLATEs.		
	Sensors Pairing										
۳	Busy lights Pairing										
8	Арр										
	Servers										
9	License										
0	Date and time										
۲	Regionality										
(iii)	Tasks										
\$()	Variables										
Mainten	ance ~	1									
Informa	tion ~										

The SMH300 device is designed to work with at least one and up to 10 SLATEs.

△ In case you are using an already installed SMH300 device, it is recommended double check its heartbeat configuration before starting any configuration. For further information, refer to the chapter §Common preferences. In the factory configuration, the SMH300 device is configuring the SLATEs so that they are waking up every 15 minutes.

 Δ In case several SMH300 devices are required, think to not install them at the same place else they could interfer each other.

Prepare SLATE pairing configuration

A Before starting any SLATE pairing, ensure that your device is on time.

To pair properly one or several slates devices to your smh300 device, you need to prepare for each SLATE PSN (Product Serial Number):

- a specific Index : between 1 and 10,
- a specific Hostname : max: 8 alphanumeric digits,
- an optional pairing PIN code : 0000 .. to 9999.

In case you had to use several SMH300 devices, prepare the same information for all of them.

For example, when the SLATEs are installed in different meeting rooms, and different buildings:

Building A:

SMH300 Hostname	Meeting room name	SLATE PSN	slate #	slate hostname	slate pairing PIN Code
smh300-buildA	Sales	00900-00050	1	Sales	none
smh300-buildA	R&D	00900-00051	2	R&D	1234
smh300-buildA	Director	00900-00052	3	Director	none
smh300-buildA	Berlioz	00900-00053	5	Berlioz	none

Building B:

SMH300 Hostname	Meeting room name	SLATE PSN	slate #	slate hostname	slate pairing PIN Code
smh300-buildB	Prod	00900-00054	1	Prod	none
smh300-buildB	Havana	00900-00055	3	Havana	none
smh300-buildB	Valley	00900-00056	5	Valley	none
smh300-buildB	Paris	00900-00057	7	Paris	none

🖝 In case only few slate devices are used, do prefer use the lower Index (1, 2, 3, ...), whose the .ppk content is updated first, before using the higher Index (..., 9, 10).

SLATEs configuration

In the default configuration, the SMH300 is configured to work with SLATEs in the nominal configuration:

- Wake-up policy:
 - every quarter of an hour,
 - 9.00 AM-7.00 PM,
 - 5/7 days.
 - Slate Message Overlay : not activated,
- Slate Maintainer : not activated,
- Touch keys : not activated,
- NFC badging : not activated,
- Extend interactivity for custom App: not activated.

As soon as a SLATE is paired to a SMH300 device, it inherits of the configuration file APPLI.CFG provided by the SMH300 device. So before starting any pairing procedure, check attentively the SMH300 device configuration for the SLATE.

If the nominal configuration is correct, go directly to the chapter § Pairing procedure.

Else press on Activate button.

🔎 🖝 Some SLATEs are appearing in the SLATES not paired to this device table. Press on the 🕅 Common preferences button.

Common preferences:

Select the	General	(1)	tab.
Select the	General	(1	tab

	5MH300 by Qeedji		Reboot the device	English	~
Configu	ration	○ □* Configuration > SLATES Pairing			
2	Administrator	Common preferences			
5	LAN				
ŝ	WLAN	General Matrix Touch keys			
	SLATEs Pairing	Limit the wake-up to a period of time	ality	Auth. State	Mode
S	Push buttons Pairing	Active interval: 2 From © 08:00 To © 19:01 or 🗆 All day lo	ng		
	Sensors Pairing	Active days: 3 Sun Mon Z Tue Wed Thu Z Fri Sat			
°.	Busy lights Pairing	Active days: 3 Sun 🗹 Mon 🗹 Tue 🔽 Wed 🔽 Thu 🗹 Fri 🗌 Sat			
5	Арр	Wake-up regularly			
	Servers	each quarter of an hour V			
a.	License	5 Vake-up by vibration sensor			
\odot	Date and time	Touch keys: 6 deactivated activated			
۲	Regionality	7 NFC using protocol ISO14443A - 106Kbps			
	Tasks				
\$()	Variables	WPAN1 (access point device) WPAN2 (mobile device)			
Mainten	ance	SLATE PSN 00902-x0000: Wake-up by vibration sensor, touch keys and RFID reader are not supported.			
Informa	tion	U Serie For 0002 AAAA make up by molation sensor, ouen keys and knot reader are not supported.			

The interface supports several field to define the SLATE wake up policy, where they are allowed update their content, install a new software release, or apply a new configuration. a) Wake up policy:

The Limit the wake-up to a period of time fieldset allows to define the timeslot in which the SLATE can wake-up:

- Limit the wake-up to a period of time:
 - the Active interval 1 (2),
 - All day long,
 - From hh1:mm1 to hh2:mm2,
 - the Active days ²(3):
 - Sunday: deactivated by default,
 - Monday: activated by default,
 - Tuesday: activated by default,
 - Wednesday: activated by default,
 - Thursday: activated by default,
 - Friday: activated by default,
 - Saturday: deactivated by default.
- The Wake-up regularly fieldset, which is always activated, is defining the wake up periodicity (or heartbeat) inside the timeslot defined above:
 Each quarter of an hour (4): the SLATE wakes up every quarter of an hours (..., 2.00 PM, 2.15 PM, 2.30 PM, 2.45 PM, 3.0 PM, 3.15 PM, ...)
 - By interval (4): 15 .. 1440 (minutes).

¹ The Active interval must be at least 15 minutes. Outside the Active interval, the device is in sleep mode and does nothing and can not be woken up by vibration.

² At least one day must be activated.

 $m \Delta$ So that the wake up policy is working properly, the smh300 m SMH300 hub needs to be on time.

▲ Be careful when you are programming a new wake-up policy. Indeed, programming an unexpected value for the wake-up may configure the SLATE to only wake-up when there are no people at all at the office !!

b) Vibration, touch key, NFC:

The Wake-up by vibration sensor (5) fieldset allows to activate vibration wake-up events to support for example:

- Slate Message Overlay,
- Slate Maintainer.

When the Wake-up by vibration sensor (5) fieldset is activated, it allows to activate support for:

- Touch keys³ (6),
- NFC using protocol³ (7):

- IS014443-A 106 kbps (default value),
- IS014443-B 106 kbps,
- JEWEL 106 kbps,
- FELICA 212 kbps,
- FELICA 424 kbps,
- DEP 106 kbps,
- DEP 212 kbps,
- DEP 424 kbps.

³ The support for Touch key and NFC reader requires that Wake-up by vibration sensor is activated.

The WPAN1 (access point device) field is always activated. It allows to activate the WPAN1 channel used between the SLATE and the SMH300 device.

The WPAN2 (mobile device) 8 field is activated in the default configuration. Deactivating the support for WPAN2 channel prevent to work with Slate Message Overlay and Slate Maintainer mobile applications. The support for the mobile application requires that Wake-up by vibration sensor is activated.

Matrix:

Select the Matrix 9 tab.

a) Default configuration:

This is the default configuration:

	5MH300 by Qeedji		Reboot the devic	e Eng	lish	
Configu	ration	△ □ ⁴ Configuration > SLATES Pairing				
2	Administrator	Common-Areferences				
5	LAN	g elefences				
(î,	WLAN	General Matrix Touch keys		× 18	•	1
	SLATEs Pairing	Event	lity	Auth.	State	Mode
3	Push buttons Pairing			None	B	•
	Sensors Pairing	Timer Testcard Vibration NFC tag NFC writer Heartbeat USB Power				
Ð	Busy lights Pairing	Actions after the event				
8	Арр					
	Servers	Image: State of the state o				
a.	License	Send HID key over WPAN1				
Ô	Date and time	□ □ □ □ □ □ □ □ □ □ Send HID tag over WPAN1				
6	Regionality	Receive Message Overlay over WPAN1				
		🗹 🔽 🔲 🔽 🔽 Folder synchronization over WPAN1 (image, config, firmware)				
	Tasks	Send HID key over WPAN2				
\$()	Variables	Wait for a delay during WPAN2: 2500				
Mainten		Receive Message Overlay over WPAN2				
Informa	tion	10 10 10 Folder synchronization over WPAN2 (image, config, firmware)				
		□ □ □ 11 □ □ □ Display a key image instead of standard one, during: 60 😫 s				
		□ □ □ □ □ □ Start a timer for 30 🖨 s repeated 3 🖨 times maximum	1999 - C. 199			
		Cancel	ок			

b) Wake up event:

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The Matrix tab allows to customize the behaviour of the pictureframe application depending on the wake-up events which are:

- after the USB MS event: wake-up by an USB cable plug,
- after the USB Power event: wake-up by an USB power tank plug,
- after the Heartbeat event: wake-up by internal timer,
- after the NFC writer (RFU) event: wake-up by NFC writing,
- after the NFC tag event: wake-up by NFC badging,
- after the Key event: wake-up by key press,
- after the Vibration event: wake-up by SLATE taping,
- after the Test card event: wake-up by Test card activation,
- after the Timer event: allow to trig several wake-up with a defined period.

c) Configuration to communicate with SMH300 hub:

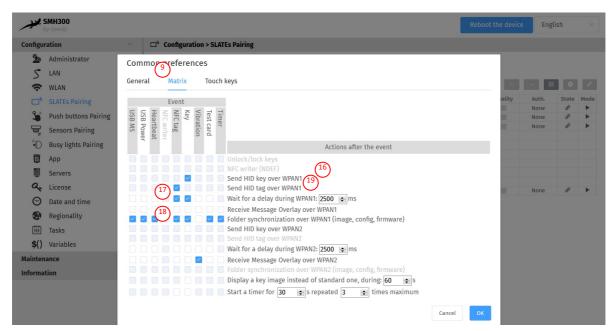
• Send HID key on WPAN1 (16): allows to transmit the keycode of the key pressed on the SLATE to the SMH300 device.

△ In this case, the following actions must be activated after HID key: Wait for a deLay during WPAN1 2500 ms ①: giving the possibility to extend the default SLATE connection duration with the SMH300 device, which is by default 2500 ms, allowing to take benefit of the wake up by HID key to update its content right now. Folder synchronization over WPAN1 (18): allowing the SLATE to update its content through WPAN1 (mandatory when working with SMH300 device).

Send NFC tag on WPAN1 (19): allows to transmit the NFC tag to the SMH300 device after NFC badging on the SLATE.

△ In this case, the following actions must be activated after NFC tag: Wait for a deLay during WPAN1 2500 ms ① giving the possibility to extend the default SLATE connection duration with the SMH300 device, which is by default 2500 ms, allowing to take benefit of the wake up by NFC to update its content right now. Folder synchronization over WPAN1 (18): allowing the SLATE to update its content through WPAN1 (mandatory when working with SMH300 device).

☞ Receive Message overlay over WPAN1 is inactivated by default because it is not supported in this version.



d) Mobile device configuration:

These are the main available actions linked to mobile devices that the SLATE can do on the wake up events explained above:

- Send HID key on WPAN2 : allows to transmit the keycode of the key pressed on the SLATE to the mobile phone,
- Wait for a delay during WPAN2 2500 ms : gives the possibility to extend the default SLATE connection duration with the mobile device, which is by default 2500 ms. It could be needed in case using with some specific Androïd OS or iOS versions. Changing this value must be first allowed by Qeedji support.
- Receive Message overlay over WPAN2 : allow to activate the communication with Mobile application.

e) Temporarily secondary content display on key press:

The Display a key image instead of standard one, during <n> seconds 10 action needs to be activated for the after Key event. It allows to activate the temporarily secondary content display feature and configure the duration from 1 to 65635 seconds (18 hours).

The required .ppk content are not provided in the product. The customer has to generate them itself with the provided img2ppk.exe tool. Download the img2ppk.exe tool from the Web site https://www.qeedji.tech.

Create your .BMP content (or .PNG content in the 800x600 resolution) with any content editor your have and save them into .BMP or .PNG format.

Execute the img2ppk.exe tool on your MS-Windows computer. Select the source content (.BMP or .PNG) and enter the names for the destination file .PPK:

- F1.ppk,
- F2.ppk ,
- F3.ppk ,
- F4.ppk ,...

For further information, refer to the img2ppk application note.

Connect the SLATE106 to your computer with an USB link and copy the .ppk contentinto the SLATE file system, one appropriate content name for each key pressed.

f) Interactivity configuration for custom application:

The Start a timer for <m> s repeated <n> times maximum (1) action needs to be activated for the key event. It allows to maintain interactivity with one user for custom applications by waking up here 3 times within 30 seconds in the default configuration:

- Start a timer for <m> s repeated <n> times maximum : not activated in the default configuration:
- <m>: 30..60
- <n> : 1..9

For further information, contact support@qeedji.tech.

For more information, refer to the SLATE106 User manual on the Qeedji Web site.

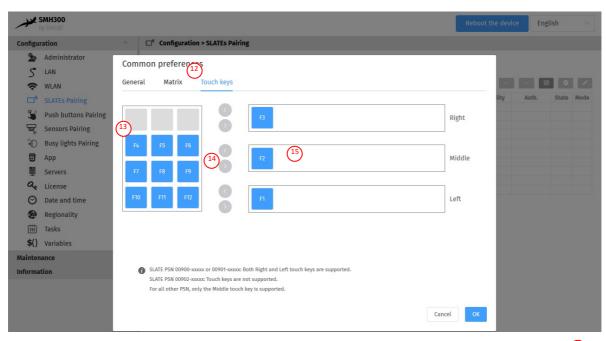
Touch Keys:

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Select the Touch keys (12) tab.

The Touch keys tab allows to configure the key mapping for:

- the Middle key button:
 - In the default keymap configuration: F2 for Middle key, pressing once on the Middle key of the SLATE allows to send F2 keycode to the SMH300 (expected value for Book now for resource reservation App):
 - Using some App for resource reservation may require to have the default configuration for keymap.
 - the temporarily secondary content display on key press feature:
 - In the default keymap configuration: F2 for Middle key , pressing once on the Middle key displays the F2.ppk content for a specific duration,



To support another configuration for temporarily secondary content display on key press, for example F4.ppk after a second Midle key press, select the F4 13 keycode on the left table, and press on the right arrow 14 for the Middle input. It should be added automatically in the Middle input 15.

To finalize the temporarily secondary content display on key press feature, generate the appropriate F2.ppk and F4.ppk with the img2ppk.exe tool and put them in the SLATE file system. For further information, read the SLATE106 user manual.

Like explained above, the temporarily secondary content display on key press feature may need to activate:

- support for Wake-up by vibration sensor,
- support for Touch keys.

Pairing procedure

The SMH300 device pairing allows to associate one or several SLATEs to a SMH300 device. A SLATE can be paired to only one smh300 device.

A When a new SMH300 device is trying to pair a legacy SLATE already paired to another SMH300 device, the SLATE will be paired to the new SMH300 device and unpaired automatically from the previous one. To prevent from any unexpected SLATE pairing by another user, a pairing PIN code can be used to prevent from mistaking.

A The SMH300 device can detect the SLATEs only when they are not in Sleep mode. In the default factory configuration, the SLATEs are programmed to wake-up and communicate for a while on the WPAN network every 15 minutes then fall again into Sleep mode.

a) Listing the available SLATEs on the WPAN network

Connect to the smh300 device WebUI, and in the Maintenance > SLATES Pairing menu, press on the Activate button.

	5MH300 by Qeedji		Reboot the device English ~	
Configu	ration	□ [¶] Configuration > SLATEs Pairing		
2	Administrator		Activate	
5	LAN			
Ŷ	WLAN	SLATEs detected	SLATEs paired to this device 😑 \land 🗸 🗰 🗢 🖍	
	SLATEs Pairing	PSN Hostname RSSI Auth.	State 🚺 # PSN Hostname RSSI Quality Auth. State Mode	
S	Push buttons Pairing	Please click the 'activate' button to configure your SLATEs.	Please click the 'activate' button to configure your SLATEs.	
5	Sensors Pairing			
Ð	Busy lights Pairing			
5	Арр			
	Servers			
a.	License			
0	Date and time			
۲	Regionality			
	Tasks			
\$()	Variables			
Mainten	iance			
Informa	tion			

A Remember that when the Deactivate label is written on the button, the nearby SLATEs can NOT update their content NOR upgrade their firmware. You will need to press on the Deactivate button at the end of the pairing procedure so that the SLATEs can update their content. When there is no user action change SMH300 device configuration during 5 minutes, the pairing is aborted automatically. To launch again the pairing procedure, press again on the Activate button.

Configu	ration		Configuration >	SLATES Pairi	ng												
2.	Administrator																
5	LAN							恭 D	eacti	vate							
()	WLAN	SLATES	SLATEs detected								d to this de	vice	11	€] [^]	×. 199		
— ⁴	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State			#	PSN	Hostname	RSSI	Quality	Auth.	State	Mod
			00903-00021	slate106	-83 dBm	None	00			1							
S	Push buttons Pairing		00903-00019	slate106	-83 dBm	None	20			2							
T.	Sensors Pairing		00903-00020	slate106	-78 dBm	None	00			3							
-			00903-00028	slate106	-87 dBm	None	00			4							
Đ	Busy lights Pairing		00903-00012	slate106	-49 dBm	None	8			5							
5	Арр		00904-00005	slate106	-87 dBm	None	00			6							
			00903-00013	slate106	-53 dBm	None	8			7							
	Servers		00903-00018 00900-00247	slate106 slate106	-82 dBm -49 dBm	None	B			8							
a.	License		00900-0024/	state 106	-49 dBm	None	0			10							
0	Data and time		00903-00024	slate100	-87 dBm	None	02			10							
Θ	Date and time		00903-00023	slate106	-87 dBm	None	ö										
	Regionality		00904-00002	slate106	-53 dBm	None	8										
	Tasks		00902-00005	slate106	-73 dBm	None	B										
\$()	Variables																
Mainten	ance																

Wait for 15 minutes until all your SLATEs are detected by the smh300 device. They should appear with their PSN in the SLATEs not paired to this device left table.

△ If the SLATE does not appear in the list after 15 minutes, check their wake-up policy configuration. For further information, refer to the SLATE106 User manual.

In the SLATEs not paired to this device left table, these parameters values are shown:

- a check column: allows to select one or several SLATEs. Selecting a SLATE allow to drop it in the right table.
- PSN : SLATE Product Serial Number,
- Hostname : name of the SLATE in the WPAN network,
- RSSI : received Signal Strength Indication (in dBm),
- Auth.:
 - PIN code : a pairing PIN code is required,
 - None : no pairing PIN code is required.
- State :
 - Dupaired : the SLATE having this PSN is not paired to the SMH300 device,
 - *P*aired : the SLATE having this PSN is paired to this SMH300 device,
 - 🌮 Paired to another device : the SLATE having this PSN is paired to another SMH300 device.

b) Pair all the required SLATEs

To pair the required SLATEs to this smh300, you have to select them, identified by their PSN in the SLATEs not paired to this device left table, and drop them into the SLATEs paired to this device right table.

In the SLATEs paired to this device right table, these values can be shown for each SLATE:

- a check column: allows to select one or several SLATEs. Select a SLATE allow to access to further menus for these SLATEs.
- #: Index from 1 to 10,
- PSN : SLATE Product Serial Number,
- Hostname : name of the SLATE in the WPAN network,
- RSSI : received Signal Strength Indication (in dbm),
- Quality:
- Quality of connection:
 - Green : the connection quality is very good and warranty the content update or the APPLI.CFG configuration file update in the 15 minutes interval,
 - Orange : the connection quality is not perfect. The download error rate has reached a threshold that can affect the file download success rate meaning that in some case, even if it should be, the APPLI.CFG file or the .ppk content may not be updated for sure within the 15 minutes interval,
 - Red : the connection quality is bad. The download error rate has reached a threshold that affect seriously the file download success rate meaning that, even if it
 - should be, the APPLI.CFG configuration or the .ppk content will be not updated in a 15 minutes interval. The SLATE can not be used in this condition. It is required to install the SLATE106 at another location,
 - Grey : not yet determined (value shown in the tooltip),
 - Last wake-up on ¹: mm/dd/yyyy, hh.mm.ss AM/PM (value shown in the tooltip), last connection date & time of the SLATE to the SMH300.
- Last synchronization on : mm/dd/yyyy, hh.mm.ss AM/PM (value shown in the tooltip), date of the last successful file downloading.
- La • La • Auth.:
 - PIN code : a pairing PIN code is required,
- None : no pairing PIN code is required.
- State:
 - Duppaired : the SLATE having this PSN is not paired,
 - 🛠 🖉 Pairing in progress : the SMH300 is waiting the next SLATE wake up so that it takes the new APPLI.CFG configuration file.
 - Paired : the SLATE having this PSN is paired to this SMH300 device.
- Mode :
 - 🗱 Test Card : the Test Card is displayed,
 - Play : the SLATE is configured to updated its HUB.PPK content.

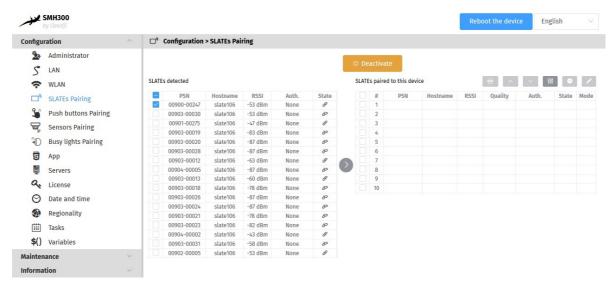
¹ The Last wake-up on date value must be roughly the same for all the paired SLATE (modulo the heartbeat). In case the Last wake-up on date value seems to be not correct, check the SLATE battery status in WPAN Devices menu of the Information pane.

In the SLATEs paired to this device right table, move up or move down the SLATEs so that they match the Index you have defined in the paragraph above SLATE pairing specification. By default, after a new SLATE drop, the SLATE configuration is:

- Test card activated.
- no pairing PIN code is required.

If you try to pair a SLATE already used in a previous installation, and which was already been paired with a pairing PIN code, at the device dropping, you are invited to enter the appropriate pairing PIN Code (4 alphanumeric digits).

Select one or several SLATEs device in the SLATEs not paired to this device left table.



Then drop them into the SLATEs paired to this device right table using the right arrow button S between the two tables.

onfigu	ration		Configuration	> SLATES Pair	ring												
2	Administrator									192							
5	LAN								la Dea	activa	ate						
(?	WLAN	SLATE	SLATEs detected							s pair	ed to this device			€] [^	- 199		
_	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State			#	PSN	Hostname	RSSI	Quality	Auth.	State	Mod
			00903-00030	slate106	-53 dBm	None	æ			1	00900-00247	slate106	-53 dBm		None	# O	
3	Push buttons Pairing		00901-00275	slate106	-47 dBm	None	8			2							
5	Sensors Pairing		00903-00019	slate106	-83 dBm	None	00			3							
			00903-00020	slate106	-78 dBm	None	00			4							
Đ	Busy lights Pairing		00903-00028	slate106	-87 dBm	None	00			5							
5	Арр		00903-00012	slate106	-63 dBm	None	8			6							
-			00904-00005	slate106	-87 dBm	None	Ø	\bigcirc		7							
Ë	Servers		00903-00013	slate106	-60 dBm	None	8			8							
a.	License		00903-00018	slate106	-78 dBm	None	æ			9							
-			00903-00026	slate106	-87 dBm -87 dBm	None	80			10							
\odot	Date and time		00903-00024	slate106	-87 dBm	None	P										
3	Regionality		00903-00021	slate106	-78 dBm	None	00										
-			00903-00023	slate106	-60 dBm	None	Ø										
	Tasks		00904-00002	slate100	-58 dBm	None	æ										
\$()	Variables	6	00902-00005	slate106	-53 dBm	None	8										

Wait for the next SLATE wake up to see the paired status going from 🗱 🖉 Pairing in progress state to the 🖉 Paired state.

onfigu	ration	^ □ ٩	Configuration	> SLATEs Pai	ring												
2.	Administrator																
5	LAN								🌣 De	activa	ate						
(?	WLAN	SLATE	s detected						SLATE	s pair	ed to this device		1	€ ^			
	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State			#	PSN	Hostname	RSSI	Quality	Auth.	State	Mod
	SLATES Pairing		00903-00030	slate106	-53 dBm	None	æ			1	00900-00247	slate106	-53 dBm		None	8	
3	Push buttons Pairing		00901-00275	slate106	-47 dBm	None	8			2							
5	Sensors Pairing		00903-00019	slate106	-74 dBm	None	ö			3							
-	Sensors Fairing		00903-00020	slate106	-78 dBm	None	æ			4							
Đ	Busy lights Pairing		00903-00028	slate106	-87 dBm	None	æ			5							
5	Арр		00903-00012	slate106	-60 dBm	None	8			6							
-	мрр		00904-00005	slate106	-87 dBm	None	00	(>)		7							
	Servers		00903-00013	slate106	-49 dBm	None	8	-		8							
a.	License		00903-00018	slate106	-78 dBm	None	00			9							
~	LICENSE		00903-00026	slate106	-87 dBm	None	00			10							
Θ	Date and time		00903-00024	slate106	-87 dBm	None	00										
	Regionality		00903-00021	slate106	-78 dBm	None	æ										
-	Regionality		00903-00023	slate106	-82 dBm	None	00										
	Tasks		00904-00002	slate106	-49 dBm	None	8										
\$()	Variables		00903-00031	slate106	-58 dBm	None	ø										
P ()	Variables		00902-00005	slate106	-58 dBm	None	8										

To avoid waiting for 15 minutes, you can also speed-up the pairing process by plugging for 3 seconds one USB power bank on each SLATE106 device to pair. However it is reserved for advanced user for first installation.

When all your SLATEs are in 🔗 Paired State and the Mode is 🗱 Test card , they should display their own Test card as soon as there are waking up.

If the SLATE is not in Paired state after 15 minutes, refer to the chapter §Common preferences.

c) Select a paired SLATE to accesss the menu

To activate the edition button, select a SLATE in the SLATEs paired to this device right table.

onngur	ation		Configuration	> SLATES Pair	ring												
2	Administrator																
5	LAN								하 De	activ	ate						
	WLAN	SLATE	s detected						SLATE	s pair	ed to this device	6	1	€ ^	V 8	8	
— ⁶	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State			#	PSN	Hostname	RSSI	Quality	Auth.	State	Mod
			00903-00030	slate106	-60 dBm	None	æ		\sim	1	00900-00247	slate106	-53 dBm		None	8	
3	Push buttons Pairing		00901-00275	slate106	-47 dBm	None	8			2							
	Sensors Pairing		00903-00019	slate106	-83 dBm	None	80			3							
	U		00903-00020	slate106	-78 dBm	None	æ			4							
D	Busy lights Pairing		00903-00028	slate106	-87 dBm	None	Ø			5							
0	Арр		00903-00012	slate106	-60 dBm	None	8	-		6							
	CPP -		00904-00005	slate106	-87 dBm	None	00	(>)		7							
	Servers		00903-00013	slate106	-53 dBm	None	8	_		8							
a.	License		00903-00018	slate106	-78 dBm	None	00			9							
			00903-00026	slate106	-87 dBm	None	00			10							
\odot	Date and time		00903-00024	slate106	-87 dBm	None	00										
A	Regionality		00903-00021	slate106	-78 dBm	None	Ø										
-	Regionality		00903-00023	slate106	-82 dBm	None	æ										
	Tasks		00904-00002	slate106	-49 dBm	None	8										
\$()	Variables		00903-00031 00902-00005	slate106	-58 dBm -58 dBm	None	P										

Then, these are the available buttons associated to the selected SLATE:

• 😂 Reset the PIN code for the mobile applications : allows to reset the SLATE private PIN code for the mobile applications when using Slate Message Overlay or Slate Maintainer,

- Move up SLATEs indices : allows to change the SLATE Index by decreasing it,
- V Move down SLATEs indices : allows to change the SLATE Index by increasing it,
- Ounpairing : allow to unpair a SLATE from this SMH300 device,
- Edit SLATEs :

o

- Hostname:
 - name of the SLATE in the WPAN network
 - free text (8 characters), default value: slate106,
 - Activate test card option:
 - checked (default value):
 the SLATE is configured to display the Test card ,
 - unchecked
 - the SLATE is configured to display the .ppk content, whose sources are located in the respective WebDAV directories of the SMH300 device.
 - Activate PIN code option:
 - checked: a pairing PIN code is required:
 - values: 0000 .. 9999,
 - unchecked (default value): no pairing PIN code is required.

	SMH300 by Qeedji									Rebo	ot the devi	e Engl	ish	~
Configu	ration ^	•	Configuration	> SLATEs Pai	ring									
2	Administrator							* Deactivate						
<u>ې</u> ک	LAN WLAN	SLATE	s not paired								€ ^	✓ ₩		
•	SLATES Pairing		PSN 00903-00	dit SLATE					Hostname slate106	RSSI -53 dBm	Quality	Auth. None	State &	Mode
	Push buttons Pairing Sensors Pairing		00901-00 00903-00 00903-00	ostname:	sla	ate106								
Ű.	Busy lights Pairing			ctivate test c	ard: 🗌									
5	App Servers		00903-00	ctivate PIN c	ode:									
94			00903-00											
() ()	Date and time Regionality		00903-00					Cancel						
	Tasks		00903-00 023 00904-00002 00903-00031	slate106 slate106 slate106	-82 dBm -53 dBm -58 dBm	None	B							
\$()	Variables		00902-00005	slate106	-73 dBm	None	P							
Mainten	nance 🗸													
Informa	ition 🗸 🗸													

When the Test card is successfully displayed in the interface for all your SLATEs, in the SLATEs paired to this device right table. double click on each device:

- inactivate the Test card,
- if required, change the Hostname and set a pairing PIN code according to your needs.

onfigu	ration		Configuration	> SLATEs Pai	ring												
2	Administrator									100							
5	LAN								E Dea	activa	ate						
(WLAN	SLATE	s detected						SLATE	s pair	ed to this device		1	€ .			
0	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State			Ħ	PSN	Hostname	RSSI	Quality	Auth.	State	Mod
	SLATES Failing		00903-00030	slate106	-60 dBm	None	æ			1	00900-00247	slate106	-53 dBm		None	8	•
3	Push buttons Pairing		00901-00275	slate106	-47 dBm	None	8			2							
	Sensors Pairing		00903-00019	slate106	-83 dBm	None	80			3							
	Sensors Fairing		00903-00020	slate106	-83 dBm	None	80			4							
D	Busy lights Pairing		00903-00028	slate106	-87 dBm	None	æ			5							
5	4.00		00903-00012	slate106	-60 dBm	None	B			6							
	Арр		00904-00005	slate106	-87 dBm	None	æ	(>)		7							
÷	Servers		00903-00013	slate106	-53 dBm	None	8	-		8							
a.			00903-00018	slate106	-82 dBm	None	do .			9							
~	License		00903-00026	slate106	-87 dBm	None	æ			10							
0	Date and time		00903-00024	slate106	-87 dBm	None	80										
6			00903-00021	slate106	-78 dBm	None	00										
	Regionality		00903-00023	slate106	-82 dBm	None	8										
(IIII)	Tasks		00904-00002	slate106	-43 dBm	None	8										
+()			00903-00031	slate106	-58 dBm	None	00										
\$()	Variables		00902-00005	slate106	-78 dBm	None	8										

To ensure that the SLATE keeps paired with your SMH300 device, an is not unexpectedly unpair by another user, you can use a 4 digits PIN code.

■ Each time the pairing PIN code , Hostname or Test card parameters are modified, the SLATE is unpaired temporarily until the configuration is taken by the SLATE. So do change them with the right parameters values all at once.

△ The pairing PIN code can be modified successfully only when first a pairing has been completed.

Move the SLATE to the appropriate index.

🛆 If you are using a booking reservation App, the index must be aligned with the booking resource index configured in the booking reservation App form.

onfigu	ration		Configuration	> SLATEs Pai	ring												
2	Administrator																
5	LAN								恭 De	activ	ate						
(?	WLAN	SLATE	s detected						SLATE	s pair	ed to this device	9	1	€ ^	 1 		
-	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State		-	#	PSN	Hostname	RSSI	Quality	Auth.	State	Mo
	SLATES Pairing		00903-00030	slate106	-58 dBm	None	æ			1							
3	Push buttons Pairing		00901-00275	slate106	-47 dBm	None	8		\sim	2	00900-00247	slate106	-53 dBm		None	8	•
	Sensors Pairing		00903-00019	slate106	-83 dBm	None	00			3							
9	Selisors Fairling		00903-00020	slate106	-78 dBm	None	80			4							
Đ	Busy lights Pairing		00903-00028	slate106	-87 dBm	None	æ			5							
5			00903-00012	slate106	-58 dBm	None	8			6							
9	Арр		00904-00005	slate106	-87 dBm	None	æ	(>)		7							
ë	Servers		00903-00013	slate106	-53 dBm	None	8	-		8							
0			00903-00018	slate106	-82 dBm	None	80			9							
a.	License		00903-00026	slate106	-87 dBm	None	20			10							
0	Date and time		00903-00024	slate106	-87 dBm	None	80										
	-		00903-00021	slate106	-73 dBm	None	00										
	Regionality		00903-00023	slate106	-82 dBm	None	02										
[##]	Tasks		00904-00002	slate106	-53 dBm	None	8										
_			00903-00031	slate106	-60 dBm	None	80										
\$()	Variables		00902-00005	slate106	-53 dBm	None	8										

Then wait for the next SLATE wake up to see the paired status going from 💥 🖉 Pairing in progress state to the 🔗 Paired state.

When all your devices are in *P* Paired state , and are in P Play mode, that means they all the SLATE devices are ready now to get a new HUB.PPK content.

△ In case smh300 migration from 3.12.XX to 4.13.14, you should not be able to finalize right now the configuration of some SLATE106, whose the firmware version is V1.10.XX. These device must first take the new firmware version 1.11.11 before taking account the new APPLI.CFG configuration file. Just ensure that the programmed Play (or Test card) mode is the right one then press now on Deactivate button. Wait for a while that the SLATE106 devices are installing the new software release V1.11.11 and are then able to take the configuration given by the smh300 SMH300 hub.

d) Finalize the pairing procedure with Deactivate button:

To complete the smh300 device configuration, and to allow the SLATE to update their content, press on the Deactivate button.

Then check the pairing index and the hostname in the WPAN Devices menu of the Information pane.

Configuration	~	₫ [*] Info	rmation	> WPAN Devices				
Maintenance Information	~	୍ ସ	Туре	Manufacturer	Model	PSN	Hostname	Information
Device		1	•					
Network		2	•	Qeedji	SLATE106	00900-00247	slate106	Battery: 94%, Firmware rev: 1.10.12, Software rev: 1.11.11_beta12, H.
O [®] WPAN Devices		3	_^					
		4	_^					
		5	_^					
		6	_^ *					
		7	_^ *					
		8	_^ *					
		9	_^					

If a content HUB.PPK is available in the appropriate WebDAV directories http://<SMH300_IP_Addr>/.output/#/ , the .ppk content will be donwloaded through WPAN1 by the respective SLATEs.

🖛 In case the appropriate WebDAV directory is empty or does not contain the right filename, the SLATE can not update their .ppk content.

w When the SMH300 is in standby, the .ppk content are not updated anymore on the WebDAV directories.

Time to obtain a connection quality

The connection quality status is showing the file download error rate averaged on the ten last files downloading between the SMH300 and the SLATE. The files can be as well:

- an APPLI.CFG configuration file,
- a .ppk content,
- a .rpk software release.

After a SMH300 reboot:

- the connection quality displayed is grey meaning that no connection quality is available,
- one hour is required to obtain a first Red connection quality,
- between one hour and two hours is required to obtain an Orange connection quality,
- two hours and half are required to obtain an Green connection quality.

unga	ration	∩ □ ⁶	Configuration	> SLATES Pai	ring												
2	Administrator																
5	LAN								‡ D€	eactiv	vate						
	WLAN	SLATE	Es not paired to th	nis device					SLATE	s pair	red to this device		1	€ ^	× 1		
_	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State			#	PSN	Hostname	RSSI	Quality	Auth.	State	Mod
0	5		00900-00157	SL02	-87 dBm	PIN code	00			1	00900-00247	SL900	-58 dBm		PIN code	8	•
2	Push buttons Pairing		00900-00263	SL03	-83 dBm	PIN code	0D			2	00901-00275	SL901	-43 dBm	-	PIN code	8	
	Sensors Pairing		00900-00253	SL20	-60 dBm	PIN code	ø			3	00902-00005	SL902	-43 dBm		PIN code	8	•
Đ	Ducy lights Daising		00902-00003 00900-00011	3BUTTONS	-83 dBm -73 dBm	PIN code	6			4	00903-00012	SL903-12 SL904	-39 dBm -53 dBm		PIN code PIN code	8	•
~	Busy lights Pairing		00900-00011	SL19 SL01	-73 dBm	None PIN code	ö			-	00904-00002	SL904	-53 GBM	-	PIN code	8	•
5	Арр		00900-00027	TOUCH	-78 dBm	None	00										
	Servers		00900-00241	SL14	-87 dBm	PIN code	00			8							
_			00900-00260	SL04	-78 dBm	PIN code	æ	\bigcirc		9							
a.	License		00900-00256	SL05	-82 dBm	PIN code	æ	-		10							
0	Date and time		00900-00259	SL09	-87 dBm	PIN code	ö			11							
6	B		00901-00013	SL13	-87 dBm	PIN code	æ			12							
Ø	Regionality									13							
	Tasks									14							
\$()	Variables									15							
40	variables									16							
Aainter	ance	× -								17 18							
nforma	tion	~								18							
										20	00903-00013	SL903-13	-53 dBm		PIN code	8	

Four hours after the SLATE has entered in sleep mode, the quality connection computed by the SMH300 for this device returns to grey color.

w When the connection quality is orange or red, the batteries lifetime may decrease because of the download retries.

In case you are facing a red connection quality :

- check that the available free space on the filesystem is at least 220 KB to warranty a software release or a .ppk content,
- check that some radio frequency obstacles do not prevent the SMH300 device to work properly with the SLATE devices,
- check also that the SLATE is properly installed in the appropriate distance and not hidden behind a thick wall.
- 🛛 🖛 The quality connection status does not bring information on the battery level.

If the problem persists despite of the advices above, please contact support@qeedji.tech.

Battery information

The Last wake-up on status of the Quality tooltip gives information on the last connexion date for a given SLATE.

	5MH300 by Qeedji							Reboot	the devic	e Engl	ish	
Configu	ration ^		Configuration >	SLATEs Pairi	ng							
2.	Administrator											
5	LAN							* Deactivate				
ŝ	WLAN	SLATE	s detected					SLATEs paired to this device		✓ 100 100 100 100 100 100 100 100 100 10		
	SLATEs Pairing		PSN	Hostname	RSSI	Auth.	State	Quality of connection: Perfect	Quality	Auth.	State	Mod
0.0	0		00903-00028	slate106	-87 dBm	None	00	Last wake-up on 11/19/2020, 3:15:11 PM	>	PIN code	8	►
3	Push buttons Pairing		00904-00005	slate106	-87 dBm	None	00	Last synchronization on 11/19/2020, 3:15:12 PM		PIN code	8	•

If the Last wake-up on date for a SLATE is very different from the same status for other SLATE, it is possible that the SLATE battery level became not sufficient. Check the battery level of the SLATEs in the WPAN Devices menu of the Information pane. For further information, refer to the chapter §Information > Wpan devices.

Unpair a SLATE

To unpair a SLATE device, select a device in the SLATEs paired to this device right table, and press on O Unpairing button.

SMH300 device replacement

In case you must replace a smh300 device which was paired to several SLATEs devices:

- old smh300:
 - write down the user preferences values for SLATE configuration,
 - user preferences listed in User preferences for SLATE device chapter.
 - write down the list of all the PSN / Hostname / pairing PIN code of the paired SLATE devices,
- unpair all the SLATEs listed above.
- new smh300:
 - configure the smh300 device by keeping the same user preferences value for SLATE configuration,
 - pair all the slate devices, whose the list has been save with PSN / Hostname /pairing PIN code .
- if a pairing PIN code was used, you must enter the right pairing PIN code .

Get the PIN code and the hostname of a paired SLATE

To get the pairing PIN code and the Hostname of a paired SLATE device, connect to the smh300 device WebUI, and in menu Maintenance > SLATE pairing, press on the button Activate, double click on each device of the SLATEs paired to this device right table, and note the pairing PIN code and the Hostname.

PIN code forgotten

If you don't remember the pairing PIN code for a device making that the device SLATE pairing can not complete, the only way is to connect the SLATE with an USB cable to a computer:

- either you can edit the preference values with APPLI.HTA GUI and get the pairing PIN code value in the field Authentication method > PIN code , eject properly the USB mass storage, then try again to pair the device the right pairing PIN code this time, or remove the configuration files APPLI.CFG, eject properly the USB mass storage, then try again to pair the device without PIN code.
- .

Restore factory preferences

After a factory preferences restoring with the configuration Web interface, the SLATE PSN are kept in the SLATEs paired to this device right table, but

- their hostname are reset the slate106 value,
- their PINCODE are reset to no PINCODE,
- their test card are displayed.

2.1.5 Configuration > Push buttons pairing

The SMH300 device is designed to be able to work on the WPAN network with up to 10 EnOcean push buttons.

The model EnOcean PTM 215B device is a push button having 4 keys:

- empty circle,
- full circle,
- +, • -.

In the Configuration pane, select the menu Push buttons pairing to pair the EnOcean push buttons devices to your SMH300 device.

4	SMH300 by Qeedji												Reboot th	e device	English	1 ×	
Configu	ration	^	🗯 Con	figuration	> Push	buttons Pairing											
2	Administrator								1	Activ							
5	LAN																
ê	WLAN			ons detected	ł						uttons pa	aired to this o	levice	_ ^			
	SLATEs Pairing			MAC		Manufacturer	Mod	del	RSSI	\bigcirc	#	MAC	Manufacturer	Model	RSSI	Hostname	
S	Push buttons Pairing			Please click	the 'acti	ivate' button to config	ure your pu	ush butto	ins.		Plea	ase click the	'activate' button to co	onfigure your p	oush butto	ns.	
5	Sensors Pairing																
Ð	Busy lights Pairing																
8	Арр																
	Servers																
9	License																
0	Date and time																
۲	Regionality																
	Tasks																
\$()	Variables																
Mainten	ance	~															
Informa	tion	~															

Click on Activate button to start the push button EnOcean device pairing process.

Configu	ration	^	💃 Co	onfiguration > Pus	h buttons Pairing									
2	Administrator						-							
5	LAN							* Deacti	vate					
(WLAN		Push bu	ittons detected				Pu	ush but	ons paired to th	is device	~		• /
	SLATEs Pairing			MAC	Manufacturer	Model	RSSI		#	MAC	Manufacturer	Model	RSSI	Hostname
2.0	Push buttons Pairing			E215000062DB	EnOcean GmbH	E215	-53 dBm		1					
	Sensors Pairing								3					
۳. D	Busy lights Pairing							\bigcirc	4					
~									6					
5	Арр								7					
	Servers								8					
a.	License								9					
0	Date and time													
1	Regionality													
	Tasks													
\$()	Variables													

Press on the Ocean push button to trig a WPAN advertising. The push button should appear in the Push button not paired to this device list. Select one or several push buttons on the Push button not paired to this device list.

	SMH300 by Qeedji										Reboot the	e device	English	1 ×
Configu	ration ^	Si (Configuration > Pus	h buttons Pairing										
2	Administrator													
5	LAN						🌣 Dea	ctivat	e					
ê	WLAN	Push t	buttons detected					Push	buttons	paired to this	device			•
	SLATEs Pairing		MAC	Manufacturer	Model	RSSI				MAC	Manufacturer	Model	RSSI	Hostname
3-	Push buttons Pairing		E215000062DB	EnOcean GmbH	E215	-53 dBm			1					
T,	Sensors Pairing								3					
Ð	Busy lights Pairing						0		5					
5	Арр								6					
	Servers								8					
a.	License								9					
0	Date and time								10					
۲	Regionality													
Ē	Tasks													
\$()	Variables													
Mainten	nance 🗸													
Informa	tion ~													

Click on the arrow to move the push button devices from the Push button not paired to this device list to the Push button paired to this device list.

	SMH300 by Qeedji										Reboot the	e device	English	~
Configu	ration	^	Sé Cont	figuration	> Push buttons Pairing									
2.	Administrator						1000							
5	LAN						恭 Dea	ictivat	te					
?	WLAN		Push butto	ons detected	i			Push	butto	ns paired to this de	evice	~		• /
	SLATEs Pairing			MAC	Manufacturer	Model RSSI			#	MAC	Manufacturer	Model	RSSI	Hostname
3	Push buttons Pairing				No push button was de	tected.			1	E215000062DB	EnOcean GmbH	E215	-53 dBm	
	Sensors Pairing						-		3					
Đ	Busy lights Pairing						Ċ	님	4					
6	Арр								6					
	Servers													
a,	License								9					
0	Date and time								10					
1	Regionality													
	Tasks													
\$()	Variables													
Mainter														
Informa	tion	~												

Select a paired push button device on the Push button paired to this device list.

	SMH300 by Qeedji										Reboot	the device	Englis	h v
Configu	ration ^	Sé Cor	nfiguration > I	Push buttons Pairing	ł									
2	Administrator													
5	LAN							¢ De	activa	ate				
(î:	WLAN	Push but	tons not paired t	to this device				Push	buttor	ns paired to this devi	ce		~ V	•
	SLATEs Pairing		MAC	Manufacturer	Model	RSSI			#	MAC E215000062DB	Manufacturer EnOcean GmbH	Model E215	RSSI	Hostname
3	Push buttons Pairing								2	E213000002DB	Enocean Glibh	EZIJ		
5	Sensors Pairing						6		3					
Ð	Busy lights Pairing								5					
8	Арр								6					
Ē	Servers								8					
a.	License								9 10					
0	Date and time													
۲	Regionality													
	Tasks													
\$()	Variables													
Mainten	ance ~													
Informa	tion ~													

Click on the Edit button to change its WPAN hostname.

	SMH300 by Qeedji					Reboot	the device	English	· ~
Configu	ration	🗯 Configuration > Pus	buttons Pairing						
2	Administrator				1				
5	LAN		\$7.1	Deactivate					
ê	WLAN	Push buttons not paired to the	Edit push button	re	ed to this devid	ce .		~ _ _	• /
	SLATEs Pairing	MAC	Luit push button	1	MAC 5000062DB	Manufacturer EnOcean GmbH	Model E215	RSSI	Hostname
S	Push buttons Pairing						EL IV		
The second se	Sensors Pairing		Hostname: Hostname						
Ð	Busy lights Pairing								
8	Арр		Cancel	ок					
	Servers			9					
9.	License			10					
0	Date and time								
۲	Regionality								
	Tasks								
\$()	Variables								
Mainten	nance 🗸 🗸								
Informa	tion ~								

Click on the $\ensuremath{\,{\rm Up}}$ or $\ensuremath{\,{\rm Down}}$ arrow to change the push button index .

	SMH300 by Qeedji									Reboot	the device	Englis	h ~
Configu	ration	^ ¥	Configuration >	Push buttons Pairin	g								
2	Administrator												
5	LAN						© De	activ	ate				
?	WLAN	Push	buttons not paired	to this device			Push	butto	ns paired to this devi	ce		^] [~]	• 🗸
	SLATEs Pairing		MAC	Manufacturer	Model	RSSI		#	MAC	Manufacturer	Model	RSSI	Hostname
3	Push buttons Pairing							1	E215000062DB	EnOcean GmbH	E215		
	Sensors Pairing							3					
Đ	Busy lights Pairing							4					
5	Арр							6					
	Servers												
0.	License							9 10					
0	Date and time							10					
	Regionality												
Ē	Tasks												
\$()	Variables												
Mainter		~											
Informa	tion	~											

Click on Deactivate button to close the pairing process. Then check the pairing index and the hostname in the WPAN Devices menu of the Information pane.

by Qeedji								Reboot the device English ~
Configuration	\sim	(□)[↑] Info	rmation	> WPAN Devices				
Maintenance	\sim							
Information	^	0	Туре	Manufacturer	Model	PSN	Hostname	Information
Device		1	S					
i Network		2	¥	EnOcean GmbH	E215	E215000062DB		
(i) [®] WPAN Devices		3	*					
		4	¥					
		5	5					
		6	\$					
		7	3					
		8	-					
		9	¥					
		10	3					

If the index is correct, do consider here that your push-button is properly paired.

You cannot pair or use an EnOcean push button beyond a maximum distance from the SMH300 device specified by the manufacturer.

For further information about the available App, contact support@qeedji.tech.

2.1.6 Configuration > Sensors pairing

The SMH300 device is designed to be able to work on the WPAN network with up to 10 EnOcean motion sensors.

The model E6211-K515 EnOcean device is a motion sensor sending periodically its status information:

- Battery : 1 .. 100 %,
- Solar cell light level : value in lx unit,
- Illumination from sensor : value in lx unit,
- Magnet contact ¹:
 - occupied: at least one people,Not occupied : no people anymore.

¹ Magnet contact status is computed on the basis of the average number of people present in the room averaged within the 2 last minutes.

In the Configuration pane, select the menu Sensors pairing to pair the EnOcean motion sensors devices to your SMH300 device.

	5MH300 by Qeedji	Reboot the device English \sim
Configu	ration ^	☞ Configuration > Sensors Pairing
2.	Administrator	Activate
5	LAN	
(:	WLAN	Sensors detected Sensors paired to this device
	SLATEs Pairing	MAC Manufacturer Model RSSI J # MAC Manufacturer Model RSSI Hostname
3	Push buttons Pairing	Please click the 'activate' button to configure your sensors. Please click the 'activate' button to configure your sensors.
	Sensors Pairing	
Đ	Busy lights Pairing	
6	Арр	
	Servers	
a.	License	
0	Date and time	
	Regionality	
iii	Tasks	
\$()	Variables	
Mainten	ance 🗸	
Informa	tion ~	

Click on Activate button to start the motion sensor device pairing process.

1	SMH300 by Qeedji											Reboot the	edevice	English	· ~
Configu	ration	^	5	Configuration > Se	nsors Pairing										
2	Administrator						-	1000							
5	LAN							🗱 Dea	ictiva	te					
ê	WLAN		Sensor	s detected					Sense	ors pair	ed to this device		~		•
	SLATEs Pairing			MAC	Manufacturer	Model	RSSI				MAC	Manufacturer	Model	RSSI	Hostname
3	Push buttons Pairing			E500000002ED E500FB090000	EnOcean GmbH EnOcean GmbH	E500 E500	-87 dBm -53 dBm			1					
	Sensors Pairing			E5000000638	EnOcean GmbH	E500	-65 dBm			3					
Ð	Busy lights Pairing							\bigcirc		4					
5	App									6					
	Servers									7					
										9					
a.										10					
0	Date and time														
۲	Regionality														
	Tasks														
\$()	Variables														
Mainten	nance	~													
Informa	ition	~													

Select one or several push buttons on the Sensors not paired to this device list.

	SMH300 by Qeedji											Reboot the	e device	English	
Configu	ration	^		Configuration > Se	nsors Pairing										
2.	Administrator														
5	LAN							(* Dead	ctiva	te					
ŝ	WLAN		Sensors	s detected					Senso	ors paire	ed to this device		~		• /
	SLATEs Pairing			MAC	Manufacturer	Model	RSSI			#	MAC	Manufacturer	Model	RSSI	Hostnam
2	Push buttons Pairing			E500000002ED E500FB090000	EnOcean GmbH EnOcean GmbH	E500 E500	-87 dBm -58 dBm			1					
-	Sensors Pairing			E50000000638	EnOcean GmbH	E500	-58 dBm	-		3					
۳ ا								>		4					
~	Busy lights Pairing									5					
5	App									7					
	Servers									8 9					
a.	License														
0	Date and time														
۲	Regionality														
[111]	Tasks														
\$()	Variables														
Mainten	ance	~													
Informa	tion	~													

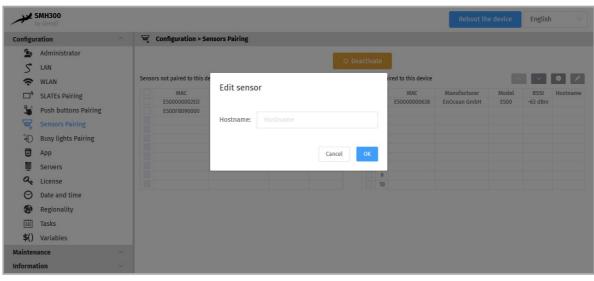
Click on the arrow to move the sensors devices from the Sensors not paired to this device list to the Sensor paired to this device list.

	SMH300 by Qeedji											Reboot the	e device	English	~
Configu	ration	^	5	Configuration > Se	nsors Pairing										
2	Administrator										1				
5	LAN							🗱 Dea	ictiva	te					
ê	WLAN		Sensor	s detected					Senso	ors pa	ired to this device		_ ^		• /
	SLATEs Pairing			MAC	Manufacturer	Model	RSSI			#	MAC	Manufacturer	Model	RSSI	Hostname
3	Push buttons Pairing			E500000002ED E500FB090000	EnOcean GmbH EnOcean GmbH	E500 E500	-87 dBm -53 dBm			1	E5000000638	EnOcean GmbH	E500	-53 dBm	
	Sensors Pairing									3					
Đ	Busy lights Pairing							Ć		4					
5	Арр									6					
	Servers									7					
0.	License									9					
Ø	Date and time									10					
۲	Regionality														
Ē	Tasks														
\$()	Variables														
Mainten		~													
Informa		~													

Select a paired sensor device on the Sensors paired to this device list.

-	5 MH300 by Qeedji											Reboot the	e device	English	~
Configu	ration	^		Configuration > Se	nsors Pairing										
2	Administrator														
5	LAN							🔅 Dea	ctivat	te					
(?	WLAN		Sensor	s detected					Senso	ors pa	ired to this device		_ ^	\sim	• /
	SLATEs Pairing			MAC	Manufacturer	Model	RSSI		-	#	MAC	Manufacturer	Model	RSSI	Hostname
9	Push buttons Pairing			E500000002ED E500FB090000	EnOcean GmbH EnOcean GmbH	E500 E500	-87 dBm		<u>~</u>	1	E5000000638	EnOcean GmbH	E500	-60 dBm	
	Sensors Pairing			20018090000	Enocean dinori	ESOO	-Jo ubiii			3					
								\odot		4					
Đ	Busy lights Pairing									5					
5	Арр									7					
	Servers									8					
0.	License									9 10					
0	Date and time														
۲	Regionality														
	Tasks														
\$()	Variables														
Mainten	ance	\sim													
Informa	tion	~													

Click on the Edit button to change its WPAN hostname.



Click on the Up or Down arrow to change the sensor index.

	SMH300 by Qeedji											Reboot the	device	English	~
Configu	ration	^	5	Configuration > Se	nsors Pairing										
2	Administrator						-	Street, St							
5	LAN							# Dead	tivat	e					
(WLAN		Sensor	s detected					Senso	rs pai	red to this device	∧ ∨ ●			•
	SLATEs Pairing			MAC	Manufacturer	Model	RSSI		-	#	MAC	Manufacturer	Model	RSSI	Hostname
9	Push buttons Pairing			E500000002ED E500FB090000	EnOcean GmbH EnOcean GmbH	E500 E500	-87 dBm -53 dBm			1	E5000000638	EnOcean GmbH	E500	-58 dBm	
	Sensors Pairing			2000/00/0000	Lifecture	2000	00 0011			3	20000000000	Libecal on bit	2000	oo dom	
Ð	Busy lights Pairing							\bigcirc		4					
8	Арр									6					
	Servers									7 8					
0	License									9 10					
Ø	Date and time									10					
۲	Regionality														
t	Tasks														
\$()	Variables														
Mainter	ance	~													
Informa	tion	~													

Then check the pairing index and the hostname in the WPAN Devices menu of the Information pane.

SMH300 by Qeedji								Reboot the device English \vee
Configuration	~	i∰ Info	rmation	> WPAN Devices				
Maintenance	~	_						
Information	^	G	Туре	Manufacturer	Model	PSN	Hostname	Information
Device		1	F,					
Network		2	5	EnOcean GmbH	E500	E500FB090000		Battery: 100%, Temperature: -40 °C, Illumination from sensor: 53
€ WPAN Devices		3	Ψ,					
		4	Ę					
		5	ę					
		6	P,					
		7	5					
		8	T					

Wait for a couple of minutes and press on the refresh button to refresh the sensor status.

If the index is correct, do consider here that your motion sensor is properly paired.

You cannot pair or use an EnOcean motion sensor beyond a maximum distance from the SMH300 device specified by the manufacturer.

For further information about the available App, contact support@qeedji.tech.

2.1.7 Configuration > Busy lights pairing

In this version, it is not possible to pair and use busy light WPAN devices.

In the Configuration pane, select the menu Busy lights pairing to pair the Qeedji busy lights devices to your SMH300 device.

	5MH300 by Qeedji									Reboot	the device	Englis	h ~
Configu	ration	^ * D	Configuration >	Busy lights Pairing									
2	Administrator												
5	LAN						AC						
(?	WLAN	Busy	lights detected				Busy l	ights paire	d to this device		~	·	• /
	SLATEs Pairing		MAC	Manufacturer	Model	RSSI		#	MAC	Manufacturer	Model	RSSI	Hostname
3	Push buttons Pairing			No data			-			No data			
1	Sensors Pairing	_											
Đ	Busy lights Pairing												
5	Арр												
100	Servers												
a.	License												
0	Date and time												
1	Regionality												
	Tasks												
\$()	Variables												
Mainten	ance	~											
Informa	tion	~											

🖝 You can not pair and use the busy light sensor over the maximal distance far from the SMH300 device preconised by the manufacturer.

2.1.8 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 one 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 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 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	SMH300 by Qeedji	Reboot the device English \sim]
Configu	ration ^	Configuration > App	
Connect S S C C C C C C C C C C C C C C C C C	Administrator LAN WLAN SLATES Pairing Push buttons Pairing Busy lights Pairing App Servers License Date and time Regionality Tasks Variables	Configuration Ppp Image: Local deposit Restart the App Image: Local deposit Purge the App Image: Local deposit Image: Local deposit Image: Local deposit Image:	
Informa	ition 🗸		

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 WLAN	● ■ Local deposit ○ ■ → ■ → ■ Push Webdav ■	
	Output	 □ +- = Pull Webdav □ □ +- = Pull Webdav - XPF compatibility 	
6	Арр		
	Servers		
04	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@geedji.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.

1	SMH300 by Qeedji		Reboot the device	English \vee	
Configu	ration ^	Configuration > App		Validate Cancel	
ا ≎ 2	Administrator LAN WLAN SLATEs Pairing Push buttons Pairing	□ □ </th <th></th> <th></th> <th></th>			
	Push buttons Pairing Sensors Pairing Busy lights Pairing App Servers				
♂⊗\$()	License Date and time Regionality Tasks Variables				
Mainten Informa					

- 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.

Configur	ation	G Configuratio	on > App	
	Administrator LAN WLAN SLATES Pairing Push buttons Pairing Sensors Pairing Busy lights Pairing App Servers	○ ○ 🖳 → ○ 🚆 ⊷	Local deposit Push Webdav Purge the App Pull Webdav - XPF compatibility http://custom-server-url/ 0 00:01:00 user	
≪ ⊗ ∰ \$()	License Date and time Regionality Tasks Variables	Password:	•••••	

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).

F 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.

	5MH300 oy Qeedji			Reboot the device	English	
Configur	ration ^	Configuratio	1 > Арр			
2 🗘 🗋	Administrator LAN WLAN SLATES Pairing		Local deposit Restart the App Pull Webdav Pull Webdav Pull Webdav - XPF compatibility			
	Push buttons Pairing Sensors Pairing Busy lights Pairing	Protocol: IP address:	http 192.168.0.3			
5 10 10 10 10	App Servers	Port:	- 80 +			
0	License Date and time Regionality	Heartbeat:	© 00:01:00			
()	Tasks Variables					
Mainten Informa						

■ 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

App for resources reservation display and control (Push WebDAV)

By regularly connecting to your calendar system, HTML Apps managing the display and control of meetings in the rooms of your building are available to work with media players. Using appropriate sensors, the device can, with this App, connect to an LDAP server to authenticate itself with an NFC badge and book, validate or delete meeting room reservations.

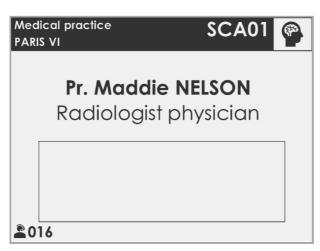


For further information, contact support@qeedji.tech.

Qeedji PowerPoint publisher for SLATE

Once this PowerPoint add-in is installed on your computer, it allows to:

- discover simply the SLATE available on your local network,
- selecting several of them,
- publish the slide content on your SLATEs (one slide per SLATE).



 Δ When the device is in standby, the .ppk content can not be updated.

For further information, refer to the chapter § Appendix 2: Qeedji PowerPoint publisher for SLATE..

Notification SLATE App

Once this App is installed, it allows to manage queues of people. Thanks to a additional *SlateNotificationApp* application running on your MS-Windows computer and behaving like a user remote control able to change the SLATE content in roughly 10 seconds, it:

- sends a MS-Windows notification to a specific person as soon as a people is pressing on the Ring the bell button of a SLATE,
- consequently the specific person can choose to answer by remotely changing the content displayed on the SLATE between:
 - a please enter message,
 - a busy message,
 - a custom live message,
 - a do not disturb message.

Dr Stefan SCHMIDT

Dentist surgeries

Please enter

Bell

For more information, contact support@qeedji.tech.

2.1.9 Configuration > Servers

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

ion ^	Status, installatio			
AN		an and configurations convors		
VLAN	Status serve	Jii aliu colliguiations servers		
		r:		
	Url:	http://custom-server-url/.device-status/		
LATES Pairing Push buttons Pairing	Heartbeat:			
ensors Pairing				
usy lights Pairing	Username:	user		
pp	Password:			0
ervers	Softwares an	nd configurations installation server:		
icense	Url:	http://custom-server-url/.setup/		
ate and time				
legionality	Heartbeat:			
asks	Username:	user		
	Password:			0
ice ~				
in V	DNS Servers			
	Obtain DNS	server address automatically		
	O Use the follo	wing DNS server address:		
	Preferred DNS	server: 192.168.0.1		
	Alternate DNS	server: 192.168.0.1		
	DNS suffixes:			
	Maximum waiti	ng time for each try: - 10 + seconds	S	
	Proxy servers	5		
		y configuration:		
		Address	- 0000 L	
	Audress.	AUUICSS		
	Username:	Pas	ssword:	٢
	HTTPS			
	Address:	Address Por	rt: - 8080 +	
	Username:	Pas	issword:	Ø
		Address	ert: - 8080 +	
	Username:	Pas	ssword:	٢
	No proxy for:			
	Delivery	server 📄 Status server 📄 Softwares and config	gurations installation server	
	Others:			
	localhost,	127.0.0.1		
	Example: inn	es.pro, 192.168.0.1/24		
		roxy configuration URL:		
a	ate and time egionality sks sriables	ate and time egionality isks iriables triables te to DNS Servers Obtain DNS Obtain DNS Obtain DNS Obtain DNS Obtain DNS Obtain DNS Obtain DNS Obtain DNS Obtain DNS ONS suffixes: DNS suffixes: DNS suffixes: DNS suffixes: DNS suffixes: Ons suffixes: DNS suffixes: Ons suffixes: DNS suffixes: Ons suffixes: Obtain DNS Ons suffixes: Username: HTTP Address: Username: No proxy for: Delivery: Others: Delivery:	ate and time egionality usks irriables Password: Password: Password: Password: Password: DNS Servers Obtain DNS server address automatically Obtain DNS server: 192168.0.1 DNS suffixes: DNS suffixes: DNS suffixes: DNS suffixes: Preferred DNS server: 192168.0.1 DNS suffixes: DNS suffixes: Propolation: NTP time server NTP Server: Maximum waiting time for each try: 10 + second Proxy servers Maximum waiting time for each try: 10 + second Proxy servers Maximum configuration: HTTPS Address: Address: Address: Address: Preferred DNS server Proxy servers Maximum waiting time for each try: Proxy servers Maximum configuration: HTTPS Address: Address: Address: Address: Preferred DNS server Proxy server Proxy servers Proxy server Proxy s	<pre>At a ad time gignality sks sks sks sks sks sks sks sks sks sk</pre>

• 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,

o

- 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.

2.1.10 Configuration > License

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

1	SMH300 by Qeedji		Reboot the device	English	~
Configu	ration ^	🕰 Configuration > License		Validate	Cancel
2.	Administrator	•			
5	LAN	License:			
(?	WLAN				
	SLATEs Pairing				
3	Push buttons Pairing				
5	Sensors Pairing				
Đ	Busy lights Pairing				
5	Арр				
	Servers				
04	License				
0	Date and time				
1	Regionality				
	Tasks				
\$()	Variables				
Mainten	iance ~				
Informa	tion \vee				

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.

2.1.11 Configuration > Date and time

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

	SMH300 by Qeedji			Reboot the device	English	~
Configu	ration	○ Configuration > Date	te and time			
2	Administrator	Time zone:	Europe / Paris			
5	LAN	UTC date and time:	© 5/5/2020 2:05 PM			
	SLATEs Pairing	Local date and time:				
S	Push buttons Pairing					
T	Sensors Pairing Busy lights Pairing					
8	Арр					
	Servers					
04	License Date and time					
۲	Regionality					
	Tasks					
\$()	Variables					
Mainten Informa		~				

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 immediately. If you have several configuration settings to change, it is advisable to adjust the date and time at last.

w 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.

2.1.12 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	SMH300 by Qeedji		Reboot the	device	English 🗸
Configu	ration ^	Configure	ation > Regionality		
2	Administrator	6			
5	LAN	Language:	English 🗸		
Ŷ	WLAN				
	SLATEs Pairing				
S	Push buttons Pairing				
	Sensors Pairing				
Ð	Busy lights Pairing				
5	Арр				
	Servers				
a.	License				
0	Date and time				
۲	Regionality				
(iii)	Tasks				
\$()	Variables				
Mainter	ance ~				
Informa	tion ~				

The supported languages are:

- English,Spanish,
- German,
- French.

2.1.13 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.

	SMH300 by Qeedji	Reboot the device	English	~
Configu	ration ^	Configuration > Tasks	Validate Ca	ancel
s (*	Administrator LAN WLAN	Image:		+ 回
ات ان	SLATES Pairing Push buttons Pairing	Task 1 From 5/5/2020 To 6/5/2020 or Every days	D_	Ш
رب 0 1	Sensors Pairing Busy lights Pairing App	Recurrences	+	
₩ Q.	Servers License	At © 06:00	Ē	
() () () () () () () () () () () () () (Date and time Regionality Tasks			
\$() Mainten	Variables			
Informa	ition 🗸			

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 ${f \mathfrak{D}}$ button and then the + button.

	SMH300 by Qeedji		Reboot the device	English	~
Configu	ration ^	🗰 Co	nfiguration > Tasks	Validate C	ancel
2	Administrator				
5	LAN	0	Power Manager		+
(î:	WLAN	۲	Table	R	0
	SLATEs Pairing		Task 1	Q	
S	Push buttons Pairing		From 5/5/2020 To 6/5/2020 or Every days		
	Sensors Pairing				
Ð	Busy lights Pairing		Energy consumption profile Very highly optimized		
5	Арр		Recurrences	+	
	Servers			T	
a.	License		🗹 Sun 🗹 Mon 🗹 Tue 🗹 Wed 🔽 Thu 🗹 Fri 🗹 Sat		
0	Date and time		From © 20:00 To © 08:00 or All day long	団	
۲	Regionality				
	Tasks		Exceptions	+	
\$()	Variables				J
Mainten	iance ~				
Informa	tion ~				

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):

🖝 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>
Volume: 0%	<pre>innes.power-manager.level.min.<>.volume = 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>
Volume: 10%	<pre>innes.power-manager.level.low.<>.volume = 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	<pre>innes.power-manager.level.high.<>.mute = false</pre>
Volume: 80%	<pre>innes.power-manager.level.high.<>.volume = 80</pre>

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>
Volume: 100%	<pre>innes.power-manager.level.max.<>.volume = 100</pre>

The values of these user preferences are all modifiable.

2.1.14 Configuration > Variables

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

	SMH300 by Qeedji			Reboot the device	English	~
Configu	ration ^	\$() Conf	iguration > Variables			
2	Administrator LAN	Custom	device variables:			
) (r	WLAN	field1:				
	SLATEs Pairing	field2:				
%	Push buttons Pairing Sensors Pairing	field3:				
Ð	Busy lights Pairing	field4:				
0	App Servers	field5:				
94	License					
0	Date and time					
۲	Regionality					
	Tasks					
\$()	Variables					
Mainten	Maintenance					
Informa	Information					

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.

2.1.15 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.

by Qeedji		Reboot the device English \vee
Configuration	V Maintenance > Middleware	
Maintenance	Middleware: Gekkota OS - 4.13.11	
 ■ Middleware ■ Logs ★ Preferences ■ Tools 	Select a middleware to upgrade the device:	
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 https://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.

2.1.16 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	~	Maintenance > Logs						
Maintenance	^	Categories						
Middleware		o						
Logs								
* Preferences		Name: app		Level:	OFF			
Tools		Name: widge	*	Level:	Level: OFF			
Information	\sim	Walle. Widge		Level.	on			
		Level of logs of undeclared o	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 .

2.1.17 Maintenance > Preferences

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

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

A 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.

2.1.18 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,
- add Trusted certificates,
- add 802.1X client certificate.

SMH300 by Qeedji		Reboot the device	English	~
Configuration Maintenance	Maintenance > Tools			
Middleware Logs Preferences Tools Information	Data partition management No error was detected on the partition. Format Fix Trusted certificates	خ		
	802.1X client certificate:	Û		

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

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.

2.1.19 Information > Device

In the Information pane, select the menu **Device** 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.

2.1.20 Information > Network

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

SMH300 by Qeedji	Reboot the device English \sim
Configuration \vee	©_ Information > Network
Maintenance \checkmark	Delivery, status and installation servers: Delivery server (G3): http://custom-server-url/ Heartbeat: 00:01:00
Device	Status server: http://custom-server-url/.device-status/ Heartbeat: 00:01:00
Network WPAN Devices	Softwares and configurations installation server: http://custom-server-url/.setup/ Heartbeat: 00:01:00
	NTP time server NTP Server: fr.pooLntp.org
	LAN_1
	Mac address: 00-1C-E6-02-27-3F Ip v4 address: 192.168.1.236/17
	Ip v6 address: Default gateway: 192.168.0.1
	State: connected DNS Servers: 192.168.0.1
	WLAN_1 Mac address: 00-19-88-26-D6-B6
	Ip v4 address: Ip v6 address:
	Default gateway:
	State: not connected DNS Servers:

2.1.21 Information > Wpan devices

In the Information pane, select the menu WPAN Devices to see WPAN devices paired to your SMH300 device.

SMH300 by Qeedji								Reboot the device English	
Configuration	\sim	-@ [≜] Info	rmation	> WPAN Devices					
Maintenance	\sim								
Information	^	<u>ସ</u>	Туре	Manufacturer	Model	PSN	Hostname	Information	
🚢 Device									
<u>i</u> Network									
(i) WPAN Devices									

The panel allows to display system information like:

- C: SLATE index column
- Type,
- Manufacturer : Qeedji, EnOcean,
- Model: Qeedji model, EnOcean model,
- PSN : product serial number,
- Hostname : name of the SLATE device on the WPAN network,
- information:
- for Qeedji model:
 - Software rev : software release version running on the SLATE,
 - Firmware rev : boot loader software running on the SLATE put a the factory (can not be updated),
 - Hardware rev : SLATE hardware board version,
 - Battery : SLATE battery level in percent updated every connection to the SLATE.
 - for EnOcean model:
 - Battery : 1 .. 100 %,
 - Solar cell light level : value in lx,
 - Illumination from sensor : value in lx,
 - Magnet contact¹:
 - Occupied:
 - at least one people,
 - Not occupied :
 - no people anymore,
 - RSSI : value in dBm.

The button $\ensuremath{\mathcal{C}}$ allows to refresh the panel information.

Example:

Configuration Maintenance	~	ିଘ [ା] Inf	전* Information > WPAN Devices									
nformation		0	Туре	Manufacturer	Model	PSN	Hostname	Information				
			_^									
Device		1	3									
@			5									
<u> Network</u> Network Network			۵,	Qeedji	SLATE106	00900-00247	slate106	Battery: 97%, Firmware rev: 1.10.12, Software rev: 1.11.11_beta10, Hardware rev: Rev				
(i) WPAN Devices		2	3	EnOcean GmbH	E215	E215000062DB						
G			Ψ,	EnOcean GmbH	E500	E500FB090000		Battery: 100%, Temperature: -40 °C, Illumination from sensor: 596 lx, Humidity: 0 r.h.,				
			_ *									
		3	8									
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		4	¥									
			5									
			•									
		5	3									
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		_	5									
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			5									
			— *									
		8	*									

2.2 Configuration by script

The smh300 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 an USB storage device. For further information, refer to the configuration-by-script application note on the https://www.qeedji.tech.

After an USB storage device insertion, wait aboout 20 seconds before removing the USB storage device. And wait that the device is rebooting (green LED displayed continuously for around 20 seconds).

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 1: Device status (status.xml)

The SMH300 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>smh300</hostname>
<uuid>05c00002-0000-0000-000ce60220e2</uuid>
<modelName><gekkota_os-model></modelName>
<modelNumber> <serialNumber>00920-00002</serialNumber>
<middleware>gekkota-4</middleware> <field1/>
<field2/>
<field3/> <field5/>
<field5/> <trleto>/>
<ip-addresses>
<ip-addresses>
<if-type>LAN</if-type>
<origin>ddcp:/origin>
<value>192.168.1.119/17</value> <value>192.168.1.119/1/</value>
</ip-address>
<ip-address>
<if-type>LAN</if-type>
<origin>auto</origin>
<value>fc00:21c:e6ff:fe02:20e2/64</value> </ip-addresses> <addons/></device> <status> <date>2020-03-31T17:40:16.055055+02:00</date>
<launcher> <launcher>
cpower-manager level="MAX"/>
<manifest-metadata xmlns:pzpm="ns.innes.gekkota.manifest">
cpzm:publish-size>@/pzpm:publish-size>
cpzm:publish-generator>gekkota_ui/pzpm:publish-generator>
cpzm: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>

2.4 Appendix 2: Qeedji PowerPoint publisher for SLATE

This appendix explains how to publish slides of a .pptx MS-Powerpoint presentation on SLATES paired to a SMH300 hub using your MS-Office PowerPoint, on which the Qeedji PowerPoint Publisher for SLATE PowerPoint Add In is installed.

🖝 The Qeedji PowerPoint Publisher for SLATE PowerPoint Add In can deal with several SMH300 hubs with same MS-PowerPoint presentation.

🖛 In this version, only the SMH300, whose WebDAV servers are available with the http:// scheme (default value), are supported.

Prerequisite:

- the SLATEs need to be paired with the right index to each appropriate SMH300 hub. For further information, refer to the chapter § Configuration > SLATEs pairing.
- the SMH300 hubs need 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.

Sum-up in a SLATE pairing table, like explained below, each SLATE with their pairing index for each SMH300 hub.

SMH300 hub hostname	SLATE PSN	SLATE index	PowerPoint section name	PowerPoint slide nb	Name	Profession		
SMH300_hub1	00902- 00951	1	1st floor	1	Pr. Maddie NELSON	Radiologist physician		
SMH300_hub1	00902- 00958	2	1st floor	2	Pr. John SMITH	Radiologist physician		
SMH300_hub1	00902- 00952	3	1st floor	3	Dr. Patricia DUCHON	General practitioner		
SMH300_hub1	00902- 00954	4	1st floor	4	Waiting room	1st floor		
SMH300_hub1	spare ²	5	1st floor	5				
SMH300_hub1	1H300_hub1 00902- 00957 6		1st floor	6	Sonia DELACOURT	Anesthetist nurse		

SMH300 hub hostname	SLATE PSN	SLATE index	PowerPoint section name	PowerPoint slide nb	Name	Profession
SMH300_hub2	00902- 00956	1	2nd floor	7	Dr. Ashley ISAAC	Dentistry surgeries
SMH300_hub2	00902- 00955 2		2nd floor	8	Dr. Xavier NELSON	Dentistry surgeries
SMH300_hub2	0_hub2 00902- 00953 3		2nd floor	9	Pr. Stefan SCHMIDT	Cardiologist

² spare is indicating that a provisioning has been done for a future SLATE device at this index.

■ In the example, the SLATE are spread on two floors. In case your MS-PowerPoint presentation needs to deal with two SMH300 hubs or more, do prefer use a MS-PowerPoint presentation with sections. In case your MS-PowerPoint presentation deals with only one SMH300 hub, do prefer use a MS-PowerPoint presentation without section.

Download the appropriate PPTX template and open it with your MS-Office PowerPoint.

The slides of the MS-PowerPoint templates given below are filling the right requirements to be displayed properly on the SLATEs:

- four grey level colors,
- layout with:
 - 4:3 format,
 - slidemaster layout for global modification,
 - a grey rectangle allowing to visualize the area reserved for the **optional** private message overlay which can be displayed thanks to the Slate Message Overlay mobile application.

one MS-PowerPoint presentation template with sections, another one without section.

- The With sections PPTX template contains two sections:
 - 1st floor section: made of 6 slides for the SMH300_hub1
 - 2nd floor section: made of 3 slides for the SMH300_hub2.
- The Without section PPTX template contains no section.

PowerPoint presentation preparation

Following the previous pairing table, prepare the slide content with one slide per SLATE device.

w Given that the screen of the SLATEs devices has a 4:3 format, it is recommended to configure your PowerPoint presentation with a slide layout configured in the 4:3 aspect ratio as well. In the Design > Slide Size PowerPoint item, choose Standard (4:3) value instead of Widescreen (16:9) value.

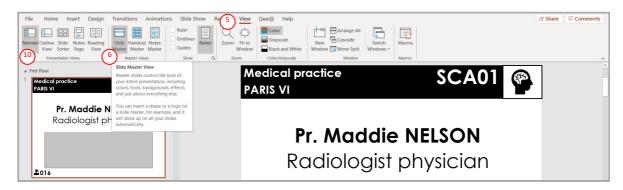
■ Keep in mind that the final rendering will be finally displayed on a SLATE106 screen filling the following requirements: 800x600 pixel and four grey levels colors. Do use the grey colors shown below.

Grey color range	R-G-B (integer value)
Black	0-0-0
Dark grey	95-95-95
Light grey	159-159
White	255-255-255

Some sections can be used especially to publish on several SMH300 hub, with one section per SMH300 hub or shorten the publication time for a given SMH300 hub by avoiding to publish unuseful slides. With a right click on the slide thumbnail list on the left, it is possible to remove one or all the sections. To add a section after a slide, select a slide on the slide thumbnail list, right click, and choose Add section. You can for example rename the section with a name containing the hostname of the SMH300 hub or containing the building name where the SMH300 hub is installed. Do not gather more than ten slides per section. For further information about PowerPoint sections, refer to the Microsoft PowerPoint support about section.

w When there is no section at all, during the publication, the Qeedji PowerPoint Publisher for SLATE PowerPoint Add In switches automatically to another SMH300 hub every ten slides. Ten is the max. number of SLATEs supported per SMH300 hub.

In case you need to modify the PowerPoint layout template, the good practise is to modify the Slide Master. In the View (5) menu, click on the Slide Master (6) ribbon item.



Then:

- select the child Slide Master (7) to change texts or add new placeholders (8) for the common layout.
- select the parent Slide Master (9) to bring shape modifications (increase place holder size, change color) for the common layout,

File Slide Master Home Insert Transitions Animations Review View Oce True Insert Slide Insert Remaine Master Layout Preserve Eff Water Karter Kart	ackground Graphics Slide Size Master View	남 Share	Comments
	edical practice Room_name		ŕ
	Name		
Tam Medical profiles Poom name	Job position		
Mame 7 Job position			
2	Phone_number 16 Octobe	er 2019	3

w Return to Normal (10) view to edit the text which is different for each slide.

Change the layout and the content according to your needs. Add as much slides as required.

Qeedji PowerPoint Publisher for SLATE: installation

The Qeedji PowerPoint Publisher for SLATE PowerPoint Add In needs to be installed once:

- download the appropriate installer (.msi file):
 - Qeedji PowerPoint Publisher for SLATE (nt_ia64) for your MS-Office (nt_ia64),
 - Qeedji PowerPoint Publisher for SLATE (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,
- press Next 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 SLATE PowerPoint Add In afterwards.

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.

🖝 In the Qeedji ribbon, click on the About 👍 item to see the version of the Qeedji PowerPoint Publisher for SLATE 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 SLATE PowerPoint Add In.

The same language is used for Qeedji PowerPoint Publisher for SLATE PowerPoint Add In interface and MS-Windows.

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

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

■ 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 SLATE to work properly.

File Home Insert Design Transitions Animations Slide Show Review	View Qeedji Help	Share Comments
	Medical practice SCA01	Ì
±016	Pr. Maddie NELSON Radiologist physician	

To register one or several SMH300 hubs, 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 SMH300 hub registering panel.

On the Advanced 13 tab, you can define a *Background color* with a color picker. The background color is only used when the Slide Size is not *Standard 4:3*. On the Devices 11 tab, press on the Auto detection 12 button to detect the SMH300 hubs available on your local network.

File	Home	Insert	Design	Transitions	Animations	Slide Show	Review	View	Qeedji	Help						🖻 Share	Comments
7	' 🏣 (0															
Publi	sh Settings A	bout															
	SLATE																
a Fi	rst floor				_	^		Μ	edic	al practic	ce		20	A01		٦	
	Medical p PARIS VI	ractice		SCAO	1 🚳 🏦	Settings						-	o ×	AUT	(P)		
	PARIS VI				Bevices	11 associated	devices					(12)					
	P	r. Ma	ddie I	NELSON	bed	13)						Au	to detection				
	R	adiolo	ogist p	hysiciar	Adver	13							Add				
													Delete)N			
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2	Medical p	ractice		IRMO	2 🚱												
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		Dr I	lohn S											1.1			
	R			hysiciar								ОК	Cancel	-			
			-9.51 P	,								on					

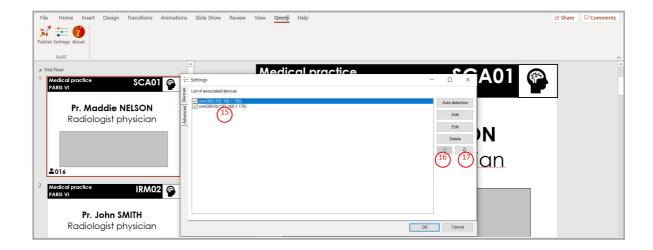
Select (14) the appropriate SMH300 hubs to create a list of appropriate SMH300 hubs as target for the MS-Powerpoint presentation.

	e Home Insert Design Transitions Animat	ions Slide Sh	Review View <u>Qcedji</u> Help		යි Share	Comments
	First floor	^	Modical practico			
1	Medical practice SCA01	🗧 🏣 Settings	Select the devices you want to add 🛛 🗖 🗌	× 🕤 💭 A01 🚱		
	PARIS VI	8 List of associ	elect: All None			
		Devic	✓ smh300 192.168.1.105 00.1C.E6:02.10.58	Auto detection	_	
	Pr. Maddie NELSON	List of associ	smh300-fd 192.168.1.176 00:1C:E6:02:27:3F			
	Radiologist physician	Advar	4	Add		
		-		Edit		
				Defete		
				û 0-		
				an		
	2016			MIT		
		-				
2	Medical practice IRM02	1				
	PARIS VI	-				
	Pr. John SMITH					
	Radiologist physician		OK Cancel	Cancel		

Select then the only SMH300 hubs on which you want to publish, by double clicking on them.

• The SMH300 hub 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 SMH300 hub located at the top of the list. Then the publication is continuing with the next SMH300 hub located immediately below, and so on.

Select a SMH300 hub 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 SLATE: publish

To publish a content on your SLATEs through the SMH300 hub, open you MS-Office Powerpoint presentation. Then:

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

File	Home	Insert	Design	Transitions	Animations	Slide Show	Review	View	Qeedji	Help		යි Share	☐ Comments
	SLATE												^
	st floor Medical pi	actice		SCA	01 🙉			Me	edic	al practice	SCA01		
	PARIS VI			JCA				PA	RIS	/			
	-			NELSON									
	Ro	adiol	ogist p	ohysicia	n					Dr Mad	die NELSON		
										FI. Mada	die nelson		
	2 016									Radiolog	ist physician		
	LU10									0			

re Before publishing with the Publish item, it is advised to check in the Settings item, that the registered SMH300 hubs are consistent and sorted in the right order.

The Publishing status report is showing whether the publishing on each SMH300 hub 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 SMH300 hub.

Publishing status report example:

<pre>1/2 - Publishing on device: *BLEAccessPoint1* (192.168.1.121)</pre>
 Publishing of the slide: 1 on the SLATE: 1/6 Publishing succeeded
- Publishing of the slide: 2 on the SLATE: 2/6
Publishing succeeded
 Publishing of the slide: 3 on the SLATE: 3/6 Publishing succeeded
- Publishing of the slide: 4 on the SLATE: 4/6
Publishing succeeded
- Publishing of the slide: 5 on the SLATE: 5/6
Publishing succeeded
 Publishing of the slide: 6 on the SLATE: 6/6
Publishing succeeded
<pre>2/2 - Publishing on device: *BLEAccessPoint2* (192.168.1.181)</pre>
- Publishing of the slide: 7 on the SLATE: 1/3
Publishing succeeded
 Publishing of the slide: 8 on the SLATE: 2/3
Publishing succeeded
 Publishing of the slide: 9 on the SLATE: 3/3
Publishing succeeded

Publishing completed

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

	toSave 💽 🛱 りゃ ひ			ns (5).pptx - Protected		c 👂 🔎	Search			Frédéric Inizan					
File	Home Insert Design	n Transitions Animations	Slide Show Revie	/ View (1)ji	Help							යි Share	5	Comm	ents
3	PROTECTED VIEW Be careful—fi	iles from the Internet can contain v	iruses. Unless you need to e	lit, it's safer to stay in Pre	otected View. Ena	able Editing									×
1	rst floor Medical practice PARIS VI	SCA01 👰		Aedical ARIS VI		e			SC/	401	(P			
	Pr. Maddie														
	Radiologist	physician													
					Pr. A	Λα	ddie	NE	LSO	Ν					
	2016			F	Radi	റിറ	aist	nh۱	<u>sici</u>	nn					

w During the publication, the PowerPoint slides are immediately transformed into PPK content (propriety format) and copied into the appropriate WebDAV directories of the SMH300 hubs. For example, with the PPTX template with sections, the PPK are copied in the following directories:

<pre>http://<smh300 addr="" hub1="" ip="">/.output/1</smh300></pre>
http:// <smh300 addr="" hub1="" ip="">/.output/2</smh300>
http:// <smh300 addr="" hub1="" ip="">/.output/3</smh300>
http:// <smh300 addr="" hub1="" ip="">/.output/4</smh300>
http:// <smh300 addr="" hub1="" ip="">/.output/5</smh300>
http:// <smh300 addr="" hub1="" ip="">/.output/6</smh300>
<pre>http://<smh300_hub2_ip_addr>/.output/1</smh300_hub2_ip_addr></pre>
<pre>http://<smh300_hub2_ip_addr>/.output/2</smh300_hub2_ip_addr></pre>
<pre>http://<smh300_hub2_ip_addr>/.output/3</smh300_hub2_ip_addr></pre>

🖝 After the publication, wait until 15 minutes (default SLATE wake up policy), the time for the SLATE to update their content by BLE.

2.5 Appendix 3: Img2slate tool

Another img2slate tool supported by Qeedji allows to mix a PowerPoint layout with the employees data stored in an Excel file. For further information, contact support@qeedji.tech.

3.1 Technical specifications

Model		Manufacturer	Manufacturer	
SMA300		Qeedji	Qeedji	
Processors				
СРU		Freescale	Freescale iMX6	
GPU		Vivante	Vivante	
Peripherals				
2x USB 2.0 Host (Low/Full/High Speed)				
1x Jack 3.5 mm configurable in GPIO or Infrared				
Storage	Information			
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			
Middleware				
Gekkota OS 4				
Audio outputs				
Jack 3.5 mm R+L stereo analog				
Embedded with HDMI output				
Network				
1x Ethernet 10/100 BaseT				
Options				
WIFI WIFI 802.11 b/g (WIFI 3)				
Power supply				
12V DC (600mA)				
Operating temperature Storage temperature				
+0°C to +35°C			-20°C to +60°C	
Operating humidity			Storage humidity	
< 80%			< 85%	
Weight Dimensions (W		ons (WxHxD)	NxHxD)	
0,450 Kg	144 x 89 x 29 m		nm	
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 contact us:

Technical support: support@qeedji.tech,Sales department: sales@qeedji.tech.

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

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