Qeedji

User manual

TAB10b

9.10.18 001A



Legal notice

TAB10b 9.10.18 (001A_en)

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Product information

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

Precautions for use

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

Warranty clauses

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

WEEE Directive



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

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Description and installation

1.1 Introduction

This manual explains how to install and configure your TAB10b device. It explains also how to install a third party APK and make a AQS operating system upgrade.

Content of the package

Items	Description	Quantity		
Device	TAB10b device with Aqs embedded	1		
Screen protection film	nuck on the screen 1			
Mounting bracket	Bracket for wall mounting	1		
Drilling pattern leaflet	Drilling pattern	1		
Screws	M2 x 35 mm (1,37 ") slotted countersunk screw (DIN 963) - a2 stainless steel	2		
Adhesive tape	3M double sided tape 4905, material: VHB W x H x D: 65 mm (2.56 ") x 19 mm (0.75 ") x 0.5 mm (0.02 ")	2		
Pads	3M single sided tape, material: silicone Ø: 8 mm (0,314 "), D: 1 mm (0,039 ")	4		

Recommendations and warnings

This device is designed to be used indoor and can work 24/7.

The device is delivered without a power supply unit. Depending on your needs, Qeedji is making recommendation for suitable power supply references in the chapter § Power supply.

A Before supply the TAB10b device with the USB connector of your computer, check with your computer's manufacturer that the USB connectors is suitable to deliver a sufficient power.

△ In case you had to remove the micro SD card, ensure first that the TAB10b device is powered off before removing or inserting the micro SD card. In case of bad handling, the micro SD card replacement would not be covered by the warranty.

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.

In this documentation, the unit of measurement for dimensions is done in millimeters followed by its equivalent value in inches.

1.2 Labelling

Product label

These are the labels stuck on the case. They are showing information embedded also in the QR code:

- the device model,
- the product serial number (PSN),
- the MAC addresses.

They are showing also:

- the power supply characteristics,
- the manufacturer Website,
- the conformity logo.





- FCC certification in pending.
- The QR code on the product label is corresponding to the product identification URL, for example:
- i.qeedji.tech?model=TAB10b&sn=01620-00001&mac.wlan1=00-1C-E6-02-4E-90&mac.wpan1=1B-1E-A2-09-DA-B4.

Packingbox label

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

- the device model,
- the QR code embedding the product serial number (PSN),
- the manufacturer Website.

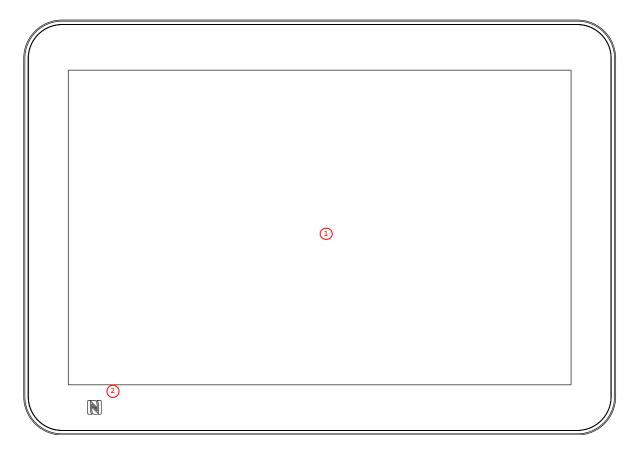


■ The QR code on the packingbox label is corresponding to the product PSN, for example: PSN01352-00011 CD3.

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

1.3 Product faces

Device's front face



(1) Touch screen, •

2 Built-in NFC/RFID sensor. •

¹ In the default factory preferences, the distance threshold for the proximity sensor is 1.5 meter. For further information contact support@qeedji.tech.

Device's up face



- 10 Surround light,
- (11) Mono speaker,
- 12 System button²,
- Built-in microphone #1, .
- Built-in microphone #2, •
- (14) Heat pipe. •

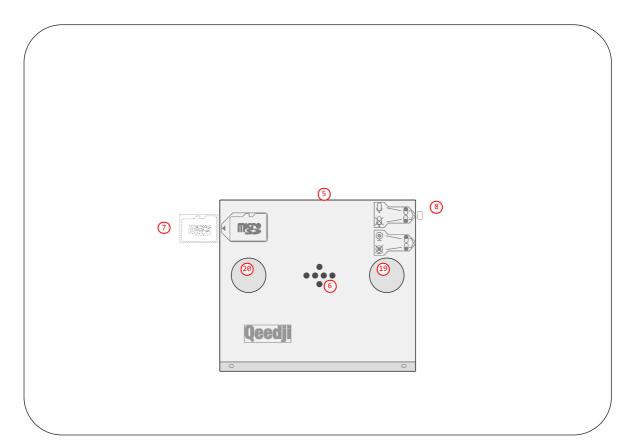
² The system button is hidden inside the hole.

 Δ Do not cover the top of the heat pipe which is designed to evacuate naturally the heat of the device when it is running.

Device's bottom face

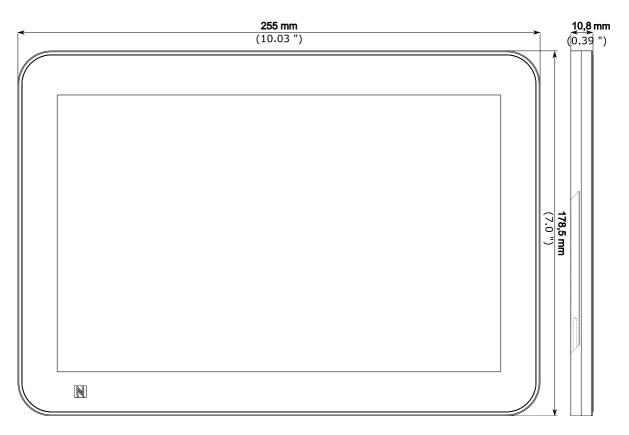


- Surround light, •
- USB-C connector, •
- Mounting bracket orifice/screw #1, •
- Mounting bracket orifice/screw #2,
 USB-C locking orifice #1, •
- •
- 4 USB-C locking orifice #2. •



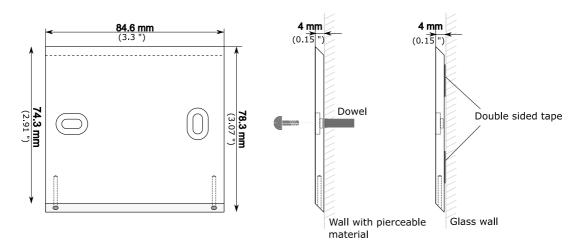
- (5) Bevelled profile to welcome the mounting bracket,
- 6 POGO type connector,
- 7 Micro SD card connector with its micro SD card,
- (8) Microphone DIP switch,
- 19 28 Holes to host screws heads to fix the mounting bracket.

1.3.1 Device dimensions



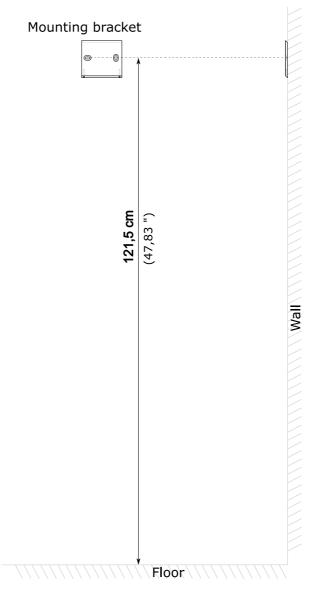
1.3.2 Device fixture

The TAB10b device can be hung on the wall using a mounting bracket (supporting or not the POGO type interface).



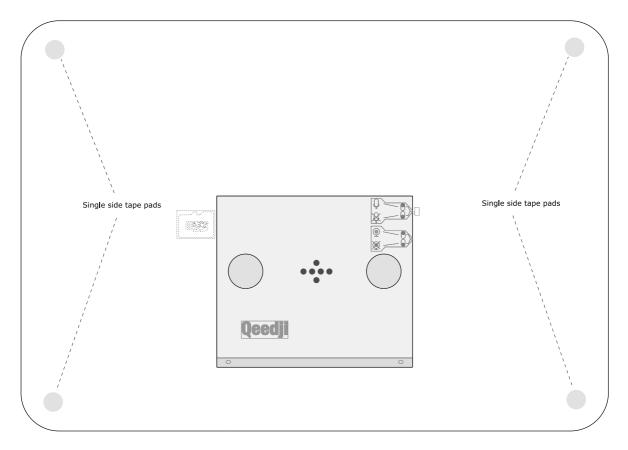
A To know the device fixture height, refer to the legislation in force in your country, related to the accessibility to disabled persons of establishments open to the public during their construction and of facilities open to the public during their development.

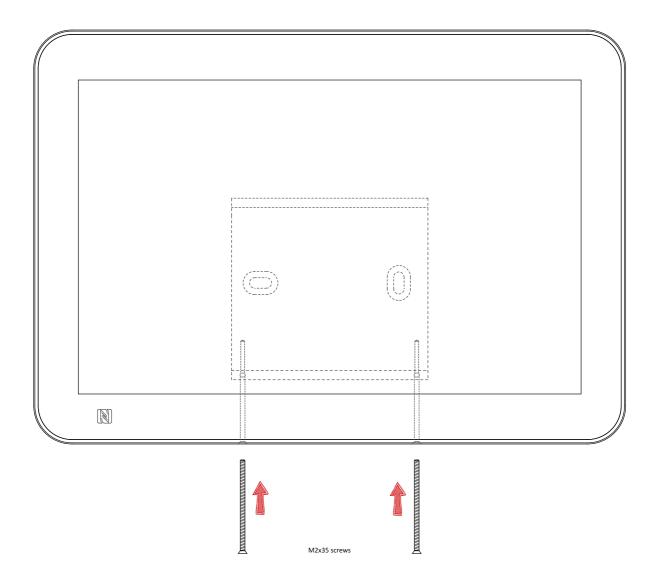
■ The legislation in force in France, for example implies to install the top of the display at 130 cm (51,181 ") maximum far from the floor. For the TAB10b device, add 2.4 cm (or 0,787 ") to this height to determine the maximum height of the top edge of the TAB10b device. For example, for the France country, the top edge of the device should be (130 + 2.4) = 132.4 cm (52,125 ") far from the floor. So, to find the center of the hole of the mounting bracket should be at 130 cm (51,18 ") - 8,5 cm (3.35 ") = 121,5 cm (47,83 ").



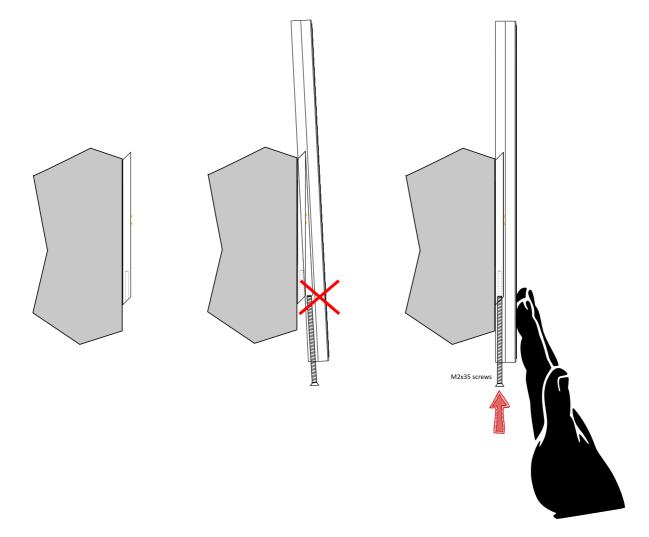
Before installing the TAB10b device:

- check that the position of the microphone DIP switch is matching the customer needs,
 stick, like explained below, the four single side tape pads at the back of the TAB10b device, respectively at the 4 corners.





A When installed on the NAPOE109kt or NAPOE109ft products having a mounting bracket with a POGO connector, before mounting the screws to lock the device, check that the TAB10b device is installed on the NAPOE109kt or NAPOE109ft products stricly on the vertical position else some unexpected power supply issue could be faced.



To check that the tablet is properly supplied, ensure that the tablet is displaying the Aqs desktop content, or any App on the screen. Swipe from the extreme top of the screen to the bottom of the screen to check the pictogram inside the notification banner.

WLAN_1 network connectivity	Information
	When this WIFI pictogram is displayed and filled with the number of bars corresponding to the WIFI reception level, the wLAN_1 connection is up.
	If the WIFI pictogram is displayed but stays empty, the <code>wlan_1</code> connection is down.

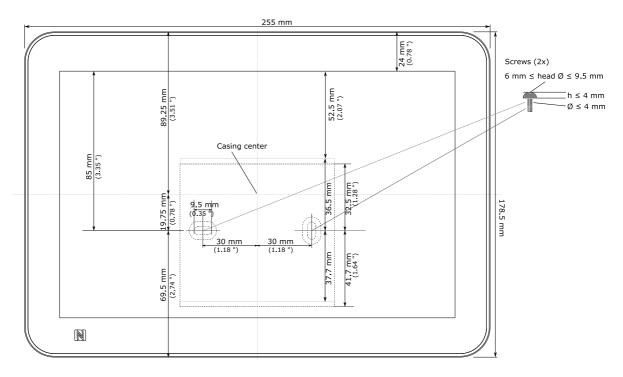
LAN_1 network connectivity	Information
<>	When this LAN pictogram is displayed, the LAN_1 connection is up. When this LAN pictogram is not displayed, the LAN_1 connection is down.

Only one of the interface can be up at a time.

When the TAB10b device is properly installed with Aqs running with a consistent network pictogram, you can remove the protective film from the screen.

1.3.3 Drilling pattern

In case you want to hang the TAB10b device on the wall, you can do it using the provided mounting bracket. Follow the drilling pattern to install it.

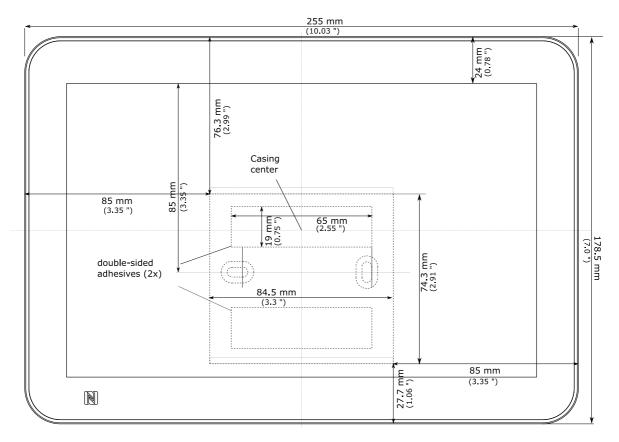


This mounting bracket can be fixed using screws (recommended for walls with pierceable material).

The screws and dowels required to fix the mounting bracket on the wall are not provided with the product. They can depend on the wall material.

Adhesive pattern

If it is not possible to fix the device with screws, for example when needing to be fixed on a glass wall, you can use the provided adhesive tapes.



▲ Clean carefully the surface before sticking the adhesive tapes.

▲ Press firmly the mounting bracket against the glass wall before hanging and locking the TAB10b device on it.

1.4 Power supply

This device is intended to work with an external power supply, not provided by default. The two ways to supply the device are:

- either through the USB-C connector,
- or through the POGO type connector.

Power supply references

Depending on your needs, you can order among several power supply unit references recommended by Qeedji.

Commercial reference	Model	Information
EXC.NAPOE109KT ¹	NAPOE109kt	The POGO connector supports power delivery and Ethernet network connectivity
EXC.NAPOE109KU ²	NAPOE109ku	The USB-C connector supports power delivery and Ethernet network connectivity
EXC.NAPOE109FT ³	NAPOE109ft	The POGO connector supports power delivery and Ethernet network connectivity

☞ For supply need only, you can purchase a single 110 V~/230 V~ to USB-C 5 V / 3 A wall plug.

• The device can be power supplied by USB-C or POGO type connector. Once supplied by one side, the device won't never change its power supply origin, even though the second side becomes available afterwards. The choice of power supply origin is renegociated each time the device is rebooting; if the USB-C and POGO type connectors are both power supplied, the device will select POGO type connector origin each time the device is rebooting.

¹ For further information, refer to the NAPOE109kt user manual.

² For further information, refer to the NAPOE109ku user manual.

³ For further information, refer to the NAPOE109ft user manual.

For further information before ordering, contact sales@qeedji.tech.

1.5 Device start-up steps

1.5 Device start up				
0	0	0	0	0
Step 1 (T0 = 0 s)	Step 2 (T ~ 1 s)	Step 3 (T ~ 8 s)	Step 4 (T ~ 22 s)	Step 5 (T ~ 30 s)
The device is booting.	Surround light red is flashing once: device powered.	Generic splashscreen is displayed: kernel initialization in progress.	Android splashscreen is displayed: AQS initialization in progress.	Nominal mode: APK is launched.

1.6 Surround light behaviour at power-up

State	Information	
Sequence of 1 short green flash of 300 ms, periodic in alternance with 4 seconds Off.	Error: the used power supply has not enough power to launch the software ¹ .	
Sequence of 2 consecutive short green flashes of 300 ms, periodic in alternance with 4 seconds Off.	Error: the micro SD card is not present, or has been removed ² . Don't forget to power off your device before installing back your micro SD card.	
Sequence of 3 consecutive short green flashes of 300 ms, periodic in alternance with 4 seconds Off.	Error: the micro SD card is unusable or the boot software is missing. If the problem persists, contact support@qeedji.tech.	
Sequence of 4 consecutive short green flashes of 300 ms, periodic in alternance with 4 seconds Off.	Error: an internal issue has been detected during power sequencing. If the problem persists, contact support@qeedji.tech.	
Sequence of 5 consecutive short green flashes of 300 ms, periodic in alternance with 4 seconds Off.	Error: the micro SD card or the AQS is corrupted and cannot be launched. Follow the factory recovery process to restore your micro SD card. If the problem persists, contact support@qeedji.tech .	
Sequence of 6 consecutive short green flashes of 300 ms, periodic in alternance with 4 seconds Off.	Error : an internal issue has been detected during bootloader execution. Try to unplug and plug the power supply. If the problem persists, contact support@qeedji.tech .	

¹ Try with another suitable power supply unit. If the problem persists despite of an appropriate power-supply unit, contact support@qeedji.tech.

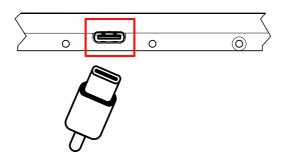
² Remove the mounting bracket from the device, or remove the device from the mounting bracket, and check that your micro SD card is properly inserted in the device.

1.7 Connectors pin-out

• The access to some connectors or DIP switches may require to remove the mounting bracket or remove the TAB10b device from the wall. Refer to the chater § Procedure to access to the back connectors.

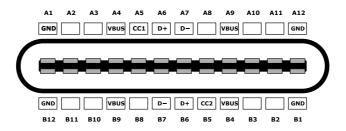
USB-C connector

The device can be supplied by the USB-C connector located at the bottom face of the product.



Information type	Value
Туре	USB type-C
Data	USB 2.0
Power	USB PD ¹ (Power delivery)

This is the USB-C pin-out for the TAB10b device:

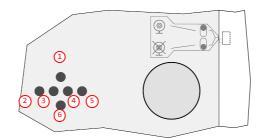


The USB-C connector is supporting Ethernet over USB.

¹ The TAB10b device is an USB sink device by default, in order to be supplied by an external power source device. It implements data-role swap, in order to be able to become the data host, and hence, to support ethernet-to-usb external bridges while being supplied by this bridge. When operating in sink mode, you must take care when selecting your power supply source and usb cable, select a power source able to drive 5 V - 3 A, and choose high quality cables, especially when you have a long distance between source and the TAB10b device. *Qeedji* advises to use *Exc.NAPOE109KU* accessory, as it is fully qualified with the TAB10b device. The TAB10b device can be an USB source device only when supplied by the POGO type connector. So it can support an external USB dongle for example. In this case, you have to take care to not sink too much current through USB-C connector.

POGO type connector

The device can be supplied by the POGO type connector located at the back of the product.





- (3) USB+
- (4) USB-,
- 5 GND,
- 6 VCC.

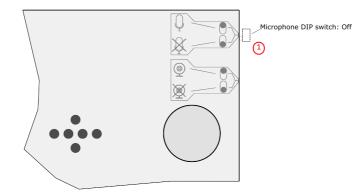
• The POGO type connector allows to supply the device and offers an USB 2.0 host interface, for Ethernet over USB for example.

Dipswitches for microphone

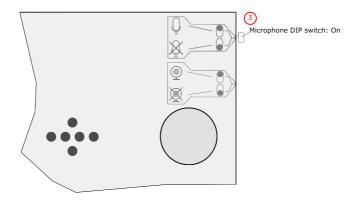
For confidentiality purpose, the TAB10b device has a switch at the back of the product allowing to activate or deactivate the microphone peripheral.

When the DIP switch is facing the crossed microphone, the microphone peripheral is deactivated.

Example of configuration when the microphone (1) peripheral are deactivated:

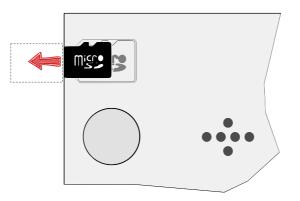


Example of configuration when the microphone (3) peripheral are activated:



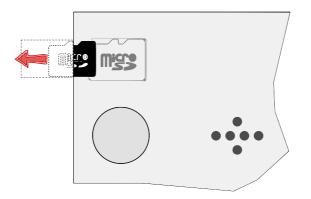
Micro-SD card

The micro SD card connector is located on the rear face of the TAB10b device. A micro SD serigraphy is showing the connector location. Step 1: Place the micro SD card in the right sense close to the connector entry.

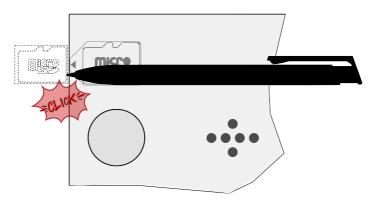


It may be required to lift the micro SD card so that it can enter into the connector. Press a little on it to tilt it.

Step 2: Glide the micro SD card in the right sense with the hand towards the micro SD card connector until you feel the spring.



Step 3: When the spring of the SD card connector is responding properly, helped with a pen, push the micro SD card towards the connector until hearing a clic.



The 16 GB micro SD card, containing the AQS for TAB10b device, is provided by default and is already installed in the product. The micro SD card is partitioned to be compliant with AOSP. This is the micro SD card partition mapping:

Number	Name	Size	File system	Function	
1	dtbo_a	4 MB		dtbo.img (device tree)	
2	dtbo_b	4 MB		dtbo.img (device tree)	
3	boot_a	48 MB		boot.img	
4	boot_b	48 MB		boot.img	
5	system a	2,5 GB	Ext4	Android system files under /system	
6	system b	2,5 GB	Ext4	Android system files under /system	
7	misc	4 MB		recovery store bootloader message, reserve	
8	metadata	2 MB		system slide show	
9	persist data	1 MB		option to operate lock\unlock	
10	vendor_a	256 MB	Ext4	vendor.img	
11	vendor_b	256 MB	Ext4	vendor.img	
12	fbmisc	1 MB		state of lock\unlock	
13	vbmeta_a	1 MB		verify boot's metadata	
14	vbmeta_b	1 MB		verify boot's metadata	
15	userdata	8,4 GB	Ext4	application data storage for system application, and for internal media partition, in /mnt/sdcard/ dir.	

If you have to remove the micro SD card,

• power off the device,

• use a little pen and press on the micro SD card. The spring will eject automatically the card.

If you have to insert again the micro SD card,

- power off the device,
- use a little pen and press on the micro SD card until hearing a clic,
- power on back the device.

A The warranty does not cover the micro SD card RMA in case it is burnt by a wrong respect of this procedure.

1.8 Procedure to access to the back connectors

Do follow this procedure to get access to:

- the microphone hardware DIP switch,
- the micro SD card connector,
- the POGO type connector.

Procedure when the device is supplied by the USB-C connector:

- unplug the USB-C cable from the device,
- untighten the two screws at the bottom of the product,
- remove the mounting bracket from the device.

Procedure when the device is hung on the wall with a mounting bracket:

- untighten the two screws at the bottom of the product,
- remove the device from the wall.

The connectors are now visible at the back of the product.

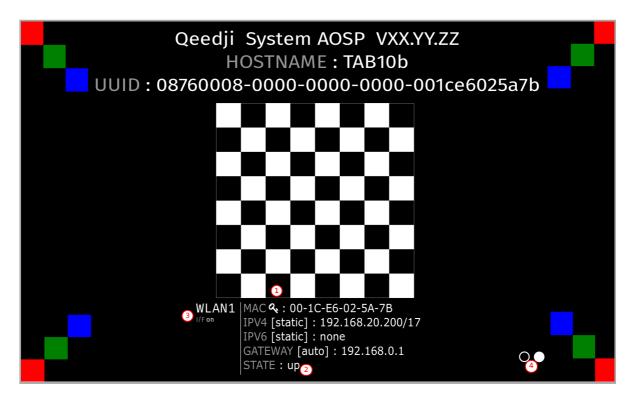
1.9 Test card

When the Test card App launching at device start-up is activated, the device displays alternatively one test pattern content per network interface supported by the device every ten seconds and this for one minute. The test pattern displays important information to assist in the device configuration.

when the Test card App is executed at device start-up for one minute, the other App cannot be executed and the user cannot access to AQS desktop by pressing on the system button.

On a TAB10b device, the test pattern content is displayed thanks to a Test Card App that is launched at device start-up when the Test card is activated in the device configuration Web user interface.

A When the Test Card App must be executed, no other App can be executed. To execute successfully another App, your must deactivated the Test Card App in the device configuration Web user interface.



If you are using a NAPOE109ku adapter, a NAPOE109kt adapter, a NAPOE109ft adapter or a PoE to USB-C adapter, the Test card displays in alternance:

- the test pattern content for the LAN1 network interface for ten seconds,
- the test pattern content for the WLAN1 network interface for ten seconds.

If not, the Test card displays only the test pattern content for the WLAN1 network interface.

For TAB10b devices, the MAC 1d value is the MAC address value of the WLAN interface. It is identified in the test pattern content by the 4 key pictogram 1.

The up STATE (2) * on the WLAN1 network interface means that the device is connected to a WIFI router. The down STATE means that the device is not connected to a WIFI router.

When using a NAPOE109kt adapter, a NAPOE109ft adapter, a NAPOE109ft adapter or a PoE to USB-c adapter, the up STATE (2) on the LAN1 network interface means that the adapter is able to provide the network connectivity. The down STATE means that the adapter is not able to provide the network connectivity due to either a wrong installation of the TAB10b device on the wall-mount or due to a wire crimping trouble on the krone connector.

• Only one network interface can be activated at a time. The *I/F* on (3) status means that the current interface displayed is kept activated by the OS; the *I/F* off (3) status means that the current network interface (or *I/F*) displayed has been deactivated by the OS.

• The white circles ④ are filled with a white dot from the left to the right, each time a test pattern content for a new network interface is displayed. When there is one LAN1 interface and one WLAN1 interface supported by the device, two white circles are displayed: the left one for the LAN1 interface, the right one for the WLAN1 interface.

• In native mode, when navigating in the Android Settings App, if the Test card App was running, the Test card App is stopped. To relaunch it, you can either restart the device or launch the Test card App available in the Android Apps view.

☞ If you have a USB keyboard plug on a USB hub connected to the TAB10b device, you can activate/deactivate the Test Card with the key sequence

If an USB keyboard is connected to an USB hub connected to the TAB10b device, the test card content can be displayed or undisplayed by pressing this keys sequence:

• [left, right, left, right] in less than ten seconds.

The test card can be displayed/undisplayed by applying the key sequence after having plugged an USB keyboard on the USB connector of the TAB10b device. In this case, only this user preference needs to be set to *true*:

- persist.sys.testcard.key-event.all.authorized.
- When a key sequence id done to stop the Test Card App, this one may take five seconds to disappear.



2.1 Introduction

To support the APK deployment, the AQS operating system version upgrade and the TAB10b device configuration update, the TAB10b device embeds the Qeedji System service which is launched automatically as soon as the AQS is running. It supports:

- APK installation thanks to a .apk file:
 - uploaded with the device configuration Web user interface,
 - hosted on one USB storage device,
 - pushed on the .apps WebDAV directory with a WebDAV client,
- device configuration thanks to a Javascript configuration script:
 - uploaded with the device configuration Web user interface,
 - hosted on one USB storage device,
 - pushed on the .configuration WebDAV directory with a WebDAV client,
 - hosted on a TFTP server + DHCP server (code 66),
- Aos operating system upgrade thanks to a .fqs firmware:
 - uploaded with the device configuration Web user interface,
 - hosted on one USB storage device,
 - pushed on the .software WebDAV directory with a WebDAV client.

2.1.1 AQS operating system upgrade with a fqs firmware

The TAB10b device embeds an Aqs operating system (V9.10.10 or above). It can be upgraded by some maintenance .fqs firmware having some evolutive or corrective changes.

To update your TAB10b device with a new AQS operating system version, download the aosp_qeedji-tab10-setup-9.YY.ZZ.fqs firmware from the Qeedji Website.

- Both Aqs operating system upgrade or downgrade are supported.
- F After an Aos operating system upgrade, the TAB10b device configuration, the user data partition and the user APK are kept.

The Aos operating system version upgrade can be done by:

- uploading the .fqs firmware with the device configuration Web user interface. For further information, refer to the chapter § AQS operating system upgrade with the device configuration Web user interface,
- putting the .fqs firmware on an USB storage device then by inserting it in the TAB10b USB-C connector, or through the third party equipment connected to the USB-C connector. For further information, refer to the chapter § AQS operating system upgrade by USB,
- putting the .fqs firmware on the .software/ directory of the WebDAV server. That requires to use credentials values of any connection profiles except Application user . For further information, refer to the chapter § AQS operating system upgrade by WebDAV.

AQS operating system upgrade with the device configuration Web user interface

It is possible to upgrade the AQS operating system version of the TAB10b device by connecting to the device configuration Web user interface with a Web browser and upload a .fqs firmware.

For further information, refer to the chapter § Maintenance > Firmware.

For further information about the connection to the device configuration Web user interface, refer to the chapter § Applicative user interface.

AQS operating system upgrade by USB

Prerequisite:

• the TAB10b device needs to have a suitable power supply equipment allowing to support AQS operating system upgrade by the USB-C connector.

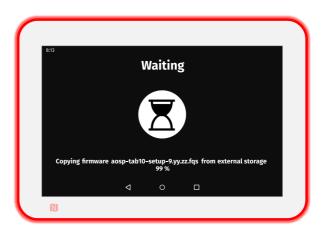
Copy the aosp_qeedji-tab10-setup-9.YY.ZZ.fqs archive at the root directory of an USB storage device and insert it on the USB-C connector of the TAB10b device (or on the third party equipment connected to the USB-C connector).

Fin case several supported files type are present like .fqs , .apk and .js , only the AQS operating system will be done.

A If the USB storage device contains several supported .fqs firmware files, the AQS operating system upgrade can not be done and no message appears.

Plug the USB storage device. This message should be displayed.

The copy duration is depending on the .fqs firmware size. It is roughly 1 min.



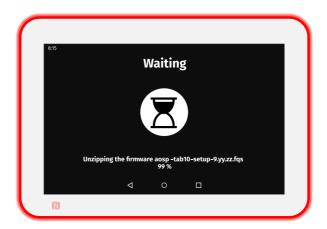
This message is then displayed until the USB storage device is unplugged.



Unplug the USB storage device.

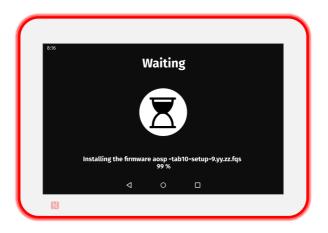
• Once the USB storage is unplugged, the Aqs operating system upgrade duration is depending on the .fqs firmware content. It can be for example: 8 minutes and 30 seconds.

This message is displayed showing that the .fqs firmware is being unzipped.

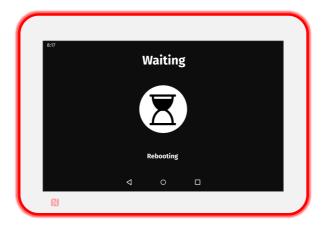


This message is then displayed showing that the .fqs firmware is being installed.

The installation duration is depending on the .fqs firmware version.



After the .fqs firmware installation, the device is rebooting automatically once. This message is displayed while the device has not yet restarted.



AQS operating system upgrade by WebDAV

Prerequisite:

- a WebDAV client (CarotDAV or BitKinex for example) is installed on your computer or
- the TAB10b device is mounted as a disk on the MS-Windows explorer. For further information, refer to the chapter § device network disk mounting in MS-Windows explorer.
 - The credentials values of any connection profile except Application user is required to write on the .software WebDAV directory.

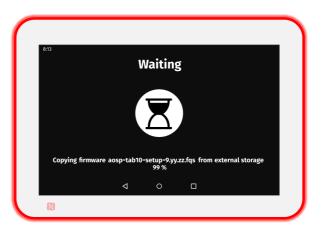
The port value put at factory to access to the WebDAV directory is 80. The port value can be modified by using a configuration script. For further information, refer to the chapter § Device configuration by script.

https:// scheme to access to the TAB10b device is not supported.

Copy the aosp_geedji-tab10-setup-9.YY.ZZ.fqs archive in the .software/ directory located at the root of the TAB10b WebDAV server.

This message should be displayed.

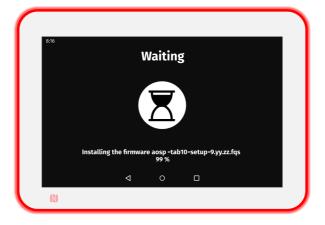
The copy duration is depending on the .fqs firmware size.



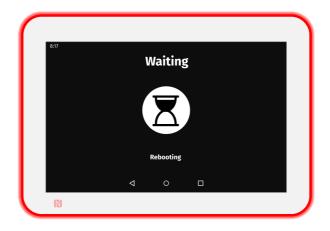
This message is displayed showing that the firmware is being unzipped.

8:15					
	١	Naitin	g		
		X			
	Unzipping the firmwa	re aosp -ta 99 %	b10-setup-9.yy.zz.fe	ąs	
	4	0			
N					

This message is then displayed showing that the firmware is being installed. The installation duration is depending on the AQS version.



After the Aqs version installation, the device is rebooting automatically once. This message is displayed while the device has not yet restarted.



■ Once the AQS operating system is installed, the .fqs firmware is removed from the device.

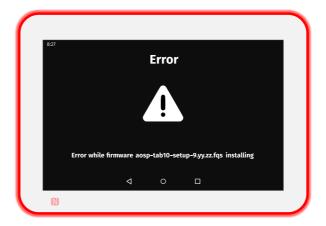
Error messages when following the previous procedures

This message is displayed for ten seconds when an error occured while copying the .fqs firmware. The USB storage device is not properly supported. Restart again the operation with another USB storage device. If the problem persists, you can contact support@qeedji.tech



One of these messages could occur when the .fqs firmware is corrupted or when the USB storage device has been removed when the copy was still in progress. If required, download again the .fqs firmware from the Qeedji Website and try again. If the problem persists, contact support@qeedji.tech.





2.1.2 APK deployment

Prerequisite:

- the APK has to be an Android application with the .apk file extension,
- the APK has to be fully compatible with AQS 9 and suitable for TAB10b (peripherals, ...),
- the APK, requiring system user execution rights, should be either signed with a Java keystore, or set as system App by a configuration script.

For further information, refer to the TAB10b developer manual.

Some APK examples can be downloaded from the Qeedji Website. For further information, contact sales@geedji.tech.

Third party APK

The TAB10b device is intended to work with one or several custom Android APKs. The third party APK are not provided.

The TAB10b device is embedding AQS 9 based on the AOSP SDK 28.

To develop your third party APK, Qeedji provides a TAB10b developer manual which is giving links to github to start to work on Aqs 9 for TAB10b device (APK examples) and explains also the procedure to sign an APK, or to set App as system App, the APK requiring system user execution rights.

- To develop your third party APK, Android software development skills and Android Studio skills are required.

The APK installation is done by:

- uploading an .apk file with the device configuration Web user interface. For further information, refer to the chapter § APK installation with the device configuration Web user interface,
- putting an .apk file on an USB storage device then by inserting it in the TAB10b USB-C connector, or through the third party equipment connected to the USB-C connector. For further information, refer to the chapter § APK version upgrade by USB.
- putting an .apk file on the .apps/ directory of the WebDAV server. For further information, refer to the chapter § APK installation by WebDAV.

The APK installation by USB is allowed by default in the AQS 9. This feature can be deactivated by using the disabLeExternaLStorageCopyApk(); function in the configuration script. For further information, refer to the chapter § Device configuration by script.

APK installation with the device configuration Web user interface

It is possible to install APK on the TAB10b device by connecting to the device configuration Web user interface with a Web browser and upload a .apk file in the .apps WebDAV directory.

For further information, refer to the chapter § Maintenance > Files.

For further information about the connection to the device configuration Web user interface, refer to the chapter § Applicative user interface.

APK installation by USB

The necessary rights for each APK are temporarily granted during the APK installation.

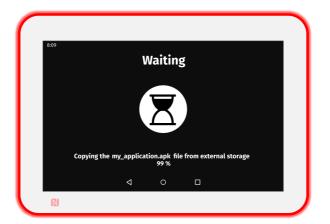
Prerequisite:

• the TAB10b device needs to have a suitable power supply equipment allowing to support APK installation by the USB-C connector.

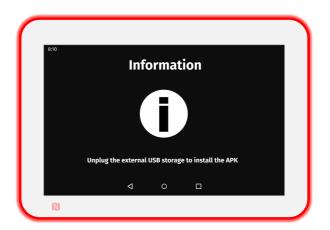
Copy the .apk file at the root directory of an USB storage device and insert it on the USB-C connector of the TAB10b device (or on the third party equipment connected to the USB-C connector).

- 🖝 If the USB storage device contains several APK at the root, each APK is installed in the alphabetical order.
- ☞ To reinstall a same version of an APK, you have to remove it before.
- ☞ To upgrade an APK with a different signature, you have to remove it before.

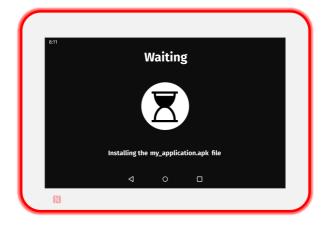
Plug the USB storage device. This message should be displayed while the APK copy has not been completed.



This message is displayed until the USB storage device is unplugged.



Unplug the USB storage device. This message should be displayed for few seconds, the time for the AQS to install the APK.

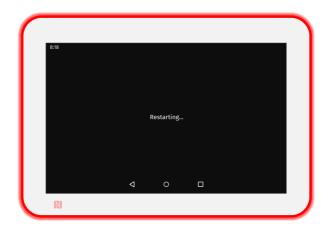


🖙 In case several APK are available on the USB storage device, the installing message appears for each new APK to install.

When the APK installation is completed, this message should be displayed for 10 seconds.



This message is then displayed until the device is rebooting automatically once.



APK installation by WebDAV

Prerequisite:

- a WebDAV client (CarotDAV or BitKinex for example) is installed on your computer or
- the TAB10b is mounted as a disk on the MS-Windows explorer. For further information, refer to the chapter § Device network disk mounting in MS-Windows explorer.
 - The default credentials values for all the connection profiles having access rights to push on the Web directories are: admin / admin .

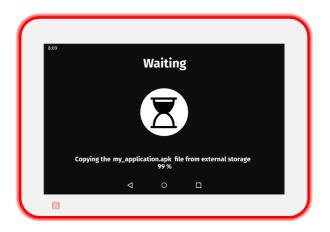
• The port value put at factory to access to the WebDAV directory is: 80. The port value can be modified by using a configuration script. For further information, refer to the chapter § Device configuration by script.

- The same version of this APK can not be reinstalled twice withour being removed before.
- https:// scheme to access to the TAB10b device is not supported.

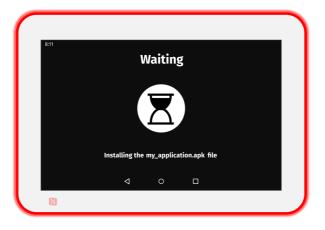
Copy the <your_apk>.apk file in the .apps/ directory located at the root of the TAB10b WebDAV server.

This message should be displayed while the APK copy has not been completed.

- The .apk file is installed only when the APK version is different from the one already installed. Once installed, the APK file is removed.
- ☞ One or more APK can be installed (or upgraded) all at once.



Unplug the USB storage device. This message should be displayed for few seconds, the time for the Aos to install the APK.



📼 In case several APK are available on the USB storage device, the installing message appears for each new APK to install.

When the APK installation is completed, this message should be displayed for 10 seconds.



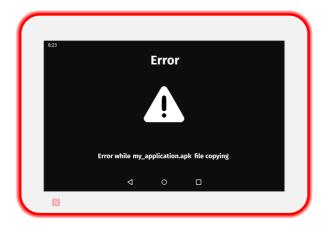
This message is then displayed until the device is rebooting automatically once.



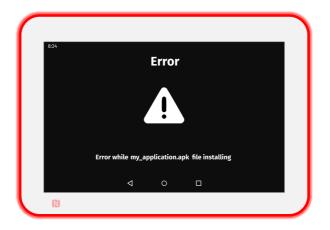
Each APK installed should be then visible on the AQS desktop.

Error messages when following the previous procedures

This message is displayed for ten seconds when an error occured while copying the APK. The USB storage device is not properly supported. Restart again the operation with another USB storage device. If the problem persists, you can contact support@qeedji.tech.



This error message is displayed for ten seconds when the APK is corrupted or when the USB storage device has been removed when the copy was still in progress. Try again. If the problem persists, you can contact support@qeedji.tech.



2.1.3 Device configuration by script

• The device can be configured with a configuration script. When it is properly customized and loaded in the device, this configuration script is allowing to set some preferences values allowing to configure the device.

The device configuration by script can be done by different ways:

- Device configuration by USB,
- Device configuration by WebDAV,
- Device configuration by server TFTP and server DHCP with code 66.

Configuration script

The list of the functions supported in the script are shown in the release note Configuration script release note.

The configuration script can be also downloaded at this location.

Rename the configuration script according to the supported filename pattern:

• common for multiple TAB10b devices:

- configuration.js,
- 00000000000.js
- when using an USB-C to USB-A hub device having also an Ethernet to USB bridge:
- <device_ETH0_MAC_address>.js with the format ABCDEFABCDEF.js,
- for a specific TAB10b device:
- <device_WLAN0_MAC_address> with the format ABCDEFABCDEF.js.

Edit the configuration script. To customize it according to your needs, uncomment one of the available functions in the BEGIN of the user configuration section by removing the // comment symbol.

For example:

```
/** ---- BEGIN of the user configuration
* ----- #/
enableExternalStorageCopyApk(); /* default mode */
//disableExternalStorageCopyApk();
/** -----
* ---- END of the user configuration
* -----*/
```

The number of supported functions can depend on the configuration script version.

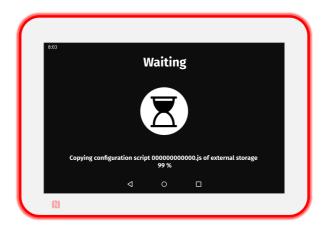
Device configuration by USB

Prerequisite:

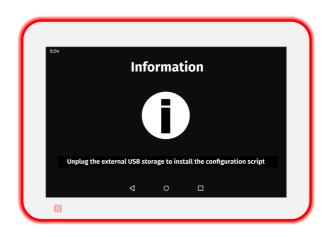
• the TAB10b device needs to have a suitable power supply equipment allowing to support TAB10b device configuration by the USB-C connector.

Copy the configuration script at the root directory of an USB storage device and insert it on the USB-C connector of the TAB10b device (or on the third party equipment connected to the USB-C connector).

This message is displayed for only few seconds.



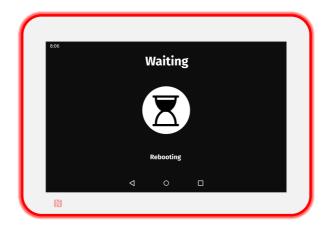
This message is displayed until the USB storage device is unplugged.



When the USB storage device is unplugged this message is displayed for less than 5 seconds.

8:05					
6.05	V	Vaitin	Ø		
		Z			
	Installing the configu	ration scri	ot 000000000000.j	s	
	4	0			
ß					

This message is then displayed until the device is rebooting automatically once.



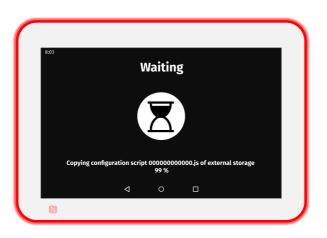
Device configuration by WebDAV

Prerequisite:

- a WebDAV client (CarotDAV or BitKinex for example) is installed on your computer or
- the TAB10b is mounted as a disk on the MS-Windows explorer. For further information, refer to the chapter § Device network disk mounting in MS-Windows explorer.
 - The default credentials values, put at factory, for all the connection profiles are: admin / admin .
 - The port value put at factory to access to WebDAV directory is: 80 . The port value can be modified by using a configuration script.
- https:// scheme to access to the TAB10b device is not yet supported.

Copy the configuration script in the .configuration/ directory located at the root of the TAB10b WebDAV server.

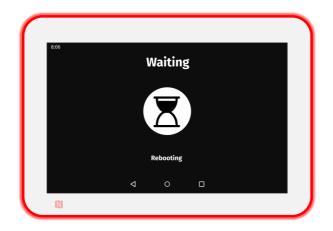
This message is displayed for only few seconds.



Then this message is displayed for less than 5 seconds.

8:05	Waiting	
	Ξ	
	Installing the configuration script 000000000000.js	
	< ○ □	
6)		

This message is then displayed until the device is rebooting automatically once.



• Once the configuration script is installed, the .js file is removed.

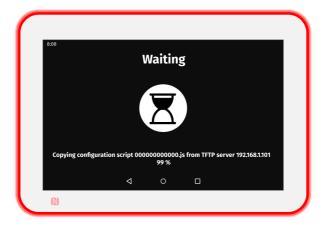
Device configuration by server TFTP and server DHCP with code 66

The TAB10b device can be configured thanks to a configuration script hosted on a TFTP server + DHCP server (code 66).

Prerequisites:

- the LAN or the WLAN interface is configured in DHCP mode,
- a TFTP server and a DHCP server are properly configured, are working properly and are available on the network. For further information, refer to the chapter § TFTP and DHCP server configuration,
- the Javascript configuration script is available in the exported directory of the TFTP server ,
- a new configuration script is taken into account by the device only when a modification has been done and only after a device restart.

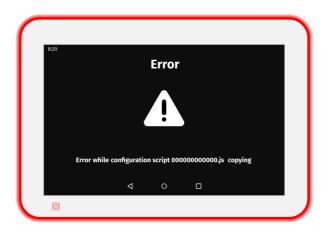
At each device boot-up, the JavaScript configuration script is downloaded from the TFTP server. The script is then executed once only if it has never been downloaded before or if the configuration script has been modified since the last reboot. The message should be displayed showing the IP address of your TFTP server.



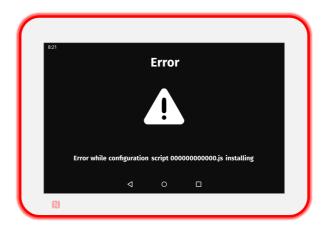
Then you should see the same messages as the chapter § Device configuration by USB (after the USB storage device is unplugged).

Error messages when following the previous procedures

This error message is displayed for ten seconds when the copy of the script from the USB storage device has failed. If the proble persists, try again with another USB storage device.



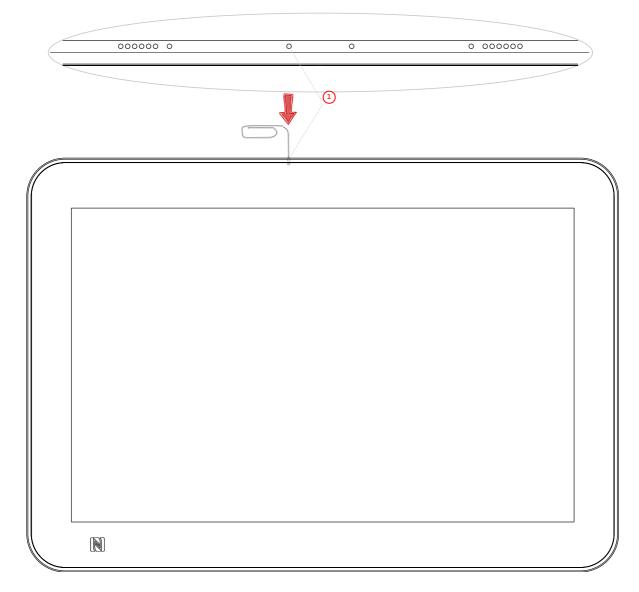
This error message is displayed for ten seconds when the configuration script contains a Javascript syntax error. Double check that the configuration script content is consistent for the TAB10b device.



2.1.4 Hardware reset

In case your APK or the AQS would not respond anymore, you can proceed to a TAB10b hardware reset:

- insert for example a paper clip inside the System button hole until feeling the button,
- hold the System button pressed for more than 5 seconds,
- release the System button by removing the paper clip.



• (1) System button.

2.2 Factory recovery

The factory recovery consists in recovering the OS and data like it was at the factory. Consequently, the different APK installed by the user and the TAB10b device configuration data will be lost. So, it is highly recommended to save all the required settings to be able to reconfigure your TAB10b device afterwards.

Before proceeding to the recovery, if it is still possible, save the safe partition: user data and APK.

Micro SD card removal

Procedure:

In case the device is hung on the wall on a mounting bracket:

- with a screw driver, untighten the two screws at the bottom of the TAB10b,
- remove the device from the mounting bracket.
- In case the device is powered by the USB-C connector:
- unplug the USB-C power supply,
- with a screw driver, untighten the two screws at the bottom of the TAB10b,
- remove the mounting bracket from the product.

With a little pen, push on the micro SD card and let the spring eject it from the micro SD connector.

• The micro SD has to eject itself totally from its connector as soon as your pen is removed. If not, start again by pushing again the micro SD card with you pen, and when the spring is responding sufficiently, remove you pen rapidly.

Micro SD card burning

Download the aosp_geedji-tab10-setup-xx.yy.zz.iso file for the factory recovery from the Qeedji Website (~ 16 GB).

The download time will depending on the network connection quality.

Insert the micro SD card in a plastic SD card adapter (31 x 24 x 2.1 mm) and insert it in the approriate SD card slot, supported by any recent computer.

■ In case Windows is showing a message inviting to format the SD card, choose No.

The ISO version suitable for your device, for example aosp_qeedji-tab10-setup-xx.yy.zz.iso, can be burnt on your micro SD card by any ISO image burning software.

w However Qeedji recommends to use the BalenaEtcher software (version V1.5.102, for example). For further information about the procedure with BalenaEtcher software, refer to the chapter § ISO image burning with BalenaEtcher.

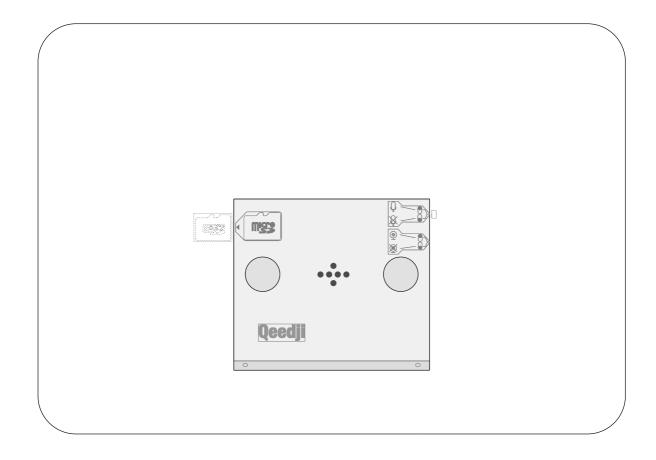
Micro SD card installation

Once the micro SD card content has been updated:

- remove the SD card adapter from your computer,
- remove the micro SD card from the SD card adapter,
- insert back the micro SD card inside the micro SD connector of the TAB10b device, in the right sense, and push it until hearing a clic. For further installation, refer to the chapter § Connectors pin-out.



When the micro SD card is installed properly, the SD card should be not visible.



In case the device has to be hung on the wall with a mounting bracket:

- hang again the product on the mounting bracket,
 with a screw driver, tighten the two screws at the bottom of the TAB10b device to lock the device on the wall.

In case the device is powered by the USB-C connector:

- install again the mounting bracket on the product,plug again the USB-C power supply.

Applicative user interface

3.1 Applicative user interface

The TAB10b device supports a Web user interface that can be accessed with a Web browser. The supported Web browsers are: Google Chrome, Mozilla Firefox, MS-Edge (Chromium).

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

The defaut credentials values put at factory for the Administration user connection profile are:

- identifier: admin,
- password: admin.

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

This is an example of content when the TAB10b device is supplied by a standard USB-C wall-plug and connected to a WIFI network.

TAB10 by Caeedji			Se Administration	English	~
0					
Devic	ce name	TAB10b			
MAC	Id	00:1C:E6:02:5A:7B			
PSN		01620-00001			

This is an example of content when the TAB10b device is supplied by a NAPOE109ku Ethernet adapter which is connected to a PoE switch.

by Geediji	> Administration English <
0	
Device name	TAB10b
MAC Id	00:1C:E6:02:5A:7B
PSN	01620-00001
Ethern	et adapter
Product name	NAPOE109ku
Manufacturer	Qeedji
Version	1.10.12
Mac address	00:1C:E6:02:56:94
PSN	01412-00008

Administration console user interface

4.1 device configuration Web user interface

The TAB10b device supports a device configuration Web user interface that can be accessed with a Web browser. The supported Web browsers are: Google Chrome, Mozilla Firefox and MS-Edge (Chromium).

It is available from the URL: /">http://device_IP_addr>/ .

The default credentials values of the Administration user connection profile are:

- identifier: admin,
- password: admin.

The URL falls automatically into the applicative user interface¹. At the top right corner, click on the Administration button.



¹ For further information, refer to the chapter § Applicative user interface.

This is the device configuration Web user interface.

TAB10			Reboot the device English V
Configuration	Configuration > Ad Ad	ministrator	(2)
 Administrator LAN_1 WLAN_1 	Device name	TAB10s TAB10s	
☐ Output ☐ Apps 章 Servers	Connection profiles Administration user Admin	~	Credentials Admin
♀ Setters♀ Certificates♥ Date and time	Administration web s Admin	service v	•
Regionality	Application user Admin	~	
\$() Variables	Application web serv		
	 Admin Publishing software Admin 	× 	

After you have changed and saved all your settings in the different panes, be sure to perform a device restart by clicking on the Reboot the device (2) button so that your changes are fully reflected.

△ The Web user interface and the WebDAV server are not accessible in https.

Click on the device logo (1) at the left top corner to return to the applicative user interface.

4.1.1 Configuration > Administrator

In the Configuration tab, select the Administrator menu to:

- change the Device name,
- view the Hostname value which is automatically generated from the device name by limiting it to 15 characters max and keeping only its alpha numeric character, the dot(.) characters and the dash(-) characters. The check box before the Force a hostname label allows to force the device to have a Hostname value set by the user.
- The Hostname value is the device identification name communicated during a network UPnP discovery.

You can add also some private credentials values, with its identifier/password by using the + button of the Credentials

Then associate your private credentials values to the different connection profiles :

- Administration user : the access rights of this connection profile allow to:
 - access to the device configuration Web user interface and make modifications,
 - use the Web Services supported by the device,
 - publish on the WebDAV server directories of the device (Apps, configuration scripts, firmwares and APKs),
- Application web service : the access rights of this connection profile allow to use only the additional Web Services supported by the App (ex: odata demo APK),
- Administration web service : the access rights of this connection profile allow to publish on the WebDAV server directories of the device (Apps, configuration scripts, firmwares and APKs),
- Publishing software : the access rights of this connection profile give allow to publish on the WebDAV server directories of the device (Apps, configuration scripts, firmwares and APKs),
- Application user : the access rights of this connection profile allow to:
 - access to the device configuration Web user interface in Read Only 1 and to the applicative Web interface in Read/Write.

¹ Out of the applicative Web page, when some modification attempts are done in one of the device configuration Web page, the user is disconnected from the device configuration Web user interface.

- The default credential label for all connection profiles is Admin , corresponding to the default identifier/password admin / admin .

A In case you have lost the credentials values of all the Administration user connection profiles, the only way to restore some known credentials is to inject an USB-C mass storage having an appropriate configuration script through the USB-C connector (*USB 1* or *USB 2*) of the TAB10b device. For further information, refer to the chapter § Device configuration by script.

TAB10				Reboot the device	English	~
Configuration	Configuration > A	dministrator				
 Administrator LAN_1 WLAN_1 	Device name	TAB10s TAB10s				
☐ Output ☐ Apps 章 Servers	Connection profiles Administration user Admin		Credentials Admin			•
Certificates	Administration web Admin	service v				•
Regionality Tasks	Application user Admin Application web ser	~				
\$() Variables Maintenance	Admin	vice				
Information	Publishing software Admin	· · · · · · · · · · · · · · · · · · · ·				

▶ It is recommended that you enter one unique Hostname value for each device. In case several TAB10b 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).

For security reasons, it may be useful to change the credentials value for the Administration user profile. Please keep these login credentials in a safe place afterwards.

This is an example with different credentials for the four connection profiles.

onfiguration	^	💁 Configuration > Ad	ministrator			
Administrator S LAN_1		Device name	TAB10s			
☆ WLAN_1		Force a hostname	TAB10s			
Output		Connection profiles Administration user			Credentials	
Servers		AdministrationUse	r-credential	~	AdministrationUser-credential	e
Certificates		Administration web s	service		AdministrationWebService-credential	G
O Date and time		AdministrationWeb	Service-credential	\sim	ApplicationUser-credential	
Regionality		Application user			ApplicationWebService-credential	
Tasks		ApplicationUser-cr	edential	~	Admin	
\$() Variables		Application web serv	vice		PushingSoftware-credential	
aintenance	\sim	ApplicationWebSer	vice-credential	~		
formation	~	Publishing software				
		PushingSoftware-c	redential	~		

The association of the credentials to the connection profiles are taken into account only after a device reboot. In case the user takes more than 5 minutes to create the credentials, associate them to the profile and reboot, the user may have to reauthenticate (with the credentials not modified).

4.1.2 Configuration > LAN_1

In the Configuration tab, select the LAN_1 menu to set up the network configuration of the LAN_1 interface of your device.

• The LAN_1 menu may not be available when the TAB10b device is connected to a WIFI network and supplied by a standard USB-C wall plug.

TAB10 by Qeedji	Reboot the device English \checkmark
Configuration ^	5 Configuration > LAN_1
 Administrator LAN_1 WLAN_1 Output Apps Servers Certificates Date and time Regionality 	Obtain IP addressing automatically by DHCP Use the following IP addressing IP address Subnet mask Default gateway DNS 1 DNS 2
Tasks () Variables	DNS suffixes
Maintenance ~ Information ~	Proxy server No proxy ~ No configuration required Security None None

- The device supports the UPnP and can be for example detected automatically in the local network environment of your computer.
- ☞ By default, the device is configured with DHCP activated.

Choose whether the IP address is static or given by the DHCP server. If static, fill the suitable parameters like subnet mask, gateway and DNS.

A The LAN_1 configuration is modified dynamically without rebooting after having pressed on the validate button. If the IP address is changing after having pressed on the validate button, you need to reconnect to the device configuration Web user interface with the new LAN_1 device IPV4 address or with the LAN_1 device IPV6 address.

■ The connection from a computer to the device configuration Web user interface with the device IPV6 address, computed from the device LAN_1 MAC address value, is supported. To connect to the IPV6 address of the LAN_1 interface, ensure that the WLAN_1 connection is down. For example, if the LAN_1 MAC address of the device is 00-1c-e6-02-27-bf, type the URL http://[fe80::21c:e6ff:fe02:27bf]/ or type http://[fc00::21c:e6ff:fe02:27bf]/ in a Web browser. The routable prefix (fc00, fe80, and so on...) are depending on your network configuration. Your computer must be configured properly to support the IPV6 protocol.

To use a specific proxy server , select the Manual proxy configuration in the Proxy servers drop down list then enter your proxy configuration.

TAB10	A reboot is required to take into account the configuration change Reboot the device English	~
Configuration ^	S Configuration > LAN_1 Canada	cel
 Administrator LAN_1 WLAN_1 Output Apps Servers Certificates Date and time Regionality 	Obtain IP addressing automatically by DHCP Use the following IP addressing IP address Subnet mask Default gateway DNS 1 DNS 2	^
Tasks \$() Variables	DNS suffixes	
Maintenance ~	Proxy server Manual proxy configuration	
Information ~	Address Port – 8080 + Username Password © No proxy for	ý

To use an automatic proxy server configuration, select the Automatic proxy configuration in the Proxy server drop down list then enter the PAC file URL allowing to get automaticall the proxy server configuration.

For example: https://domain.contoso.en/dir/my-proxy-auto-conf.pac

TAB10			Reboot the device	English	~
Configuration	^	5 Configuration > LAN_1			Cancel
 Administr LAN_1 WLAN_1 Output Apps Servers Certificate Date and Regionali Tasks 	25 time	 Obtain IP addressing automatically by DHCP Use the following IP addressing IP address Subnet mask Default gateway DNS 1 DNS 2 DNS suffixes 			
\$() Variables	_				
Maintenance Information	~	Proxy server Automatic proxy configuration		•	
		Security None V			

A The LAN_1 configuration is dynamically taking into account the new LAN_1 parameter as soon as the user changes from IP address allocated by DHCP to static IP address or changes the static IP address value then click on the *Validate* button of the device configuration Web user interface.

△ The devices uses only one network interface at a time. The wLAN_1 has priority over LAN_1.

A In DHCP mode, if neither the LAN_1 connectivity nor the WLAN_1 connectivity is working or the WLAN_1 interface is deactivated, the IP address value is *unavailable*. In some case, a valid IP address can be got back few dozens of seconds after the network connectivity is restored on WLAN_1 interface or on LAN_1 interface.

Procedure to configure the LAN_1 interface with the configuration Web user interface when your network supports DHCP:

- 1. it is considered here that the network connectivity is OK over the LAN_1 interface,
- 2. connect to the device configuration Web user interface with a Web browser with the DHCP IP address of the LAN_1 interface. You can still connect to the device configuration Web user interface with its LAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:5694] get from the MAC value written at the back of the NAPOE109XX device).

Procedure to configure the LAN_1 interface with the configuration Web user interface when your network does not support DHCP:

- 1. it is considered here that the TAB10b device is connected to a *NAPOE109ku* device or to a *NAPOE109kt*, or to a *NAPOE109ft* device which is connected to a PoE switch,
- 2. disconnect the RJ45 cable (cable1 for network1) from your computer,
- 3. connect a RJ45 cable (cable2 for network2) between your computer and the PoE switch,
- 4. connect to the device configuration Web user interface with a Web browser with its LAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:5694] get from the MAC value written at the back of the NAPOE109XX device),
- 5. deactivate IP address get by DHCP for LAN_1 and enter a suitable static address configuration (IP address, subnet mask, gateway, DNS),
- 6. reboot the device with the device configuration Web user interface,
- 7. disconnect the RJ45 cable (cable2 for network2) from your computer and reconnect the previous RJ45 cable (cable1 for network1),
- 8. connect to the device configuration Web user interface with a Web browser with the valid LAN_1 IP address of the device. You can still connect to the device configuration Web user interface with its LAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:5694] get from the MAC value written at the back of the NAPOE109XX device).

To activate 802.1X security on LAN_1 interface, set the Security field to 802.1X instead of None.

Choose one EAP method among PWD, MD5, GTC, PEAP, TLS, TTLS. The chosen EAP method must be supported by your RADIUS server.

TAB10 by Qeedji		Reboot the device	English	V
Configuration ^	5 Configuration > LAN_1			Cancel
 Administrator LAN_1 WLAN_1 Output Apps Servers Certificates Date and time Regionality Tasks 	 Obtain IP addressing automatically by DHCP Use the following IP addressing IP address Subnet mask Default gateway DNS 1 DNS 2 			^
\$() Variables	DNS suffixes			
Maintenance ~ Information ~	Proxy server No proxy			
	No configuration required Security 802.1X EAP method TLS Validation of the 802.1X CA certificate Qeedji (Qeedji Certificate Authority) Provision of the 802.1X user certificate Qeedji (001CE6025A7B) Identity 001CE6025A7B			

☞ In the context of a secure network, your device must be first declared in your dedicated RADIUS server with a identity / password. For further information, please contact your IT department.

When required, fill the Identity / password declared for your device in your RADIUS server.

When displayed, the Anonymous identity field value is optional.

Required only by the PEAP or TTLS EAP methods, choose then among the Phase 2 authentication mode supported by your RADIUS server: NONE, PAP, MSCHAPV2, CHAP, GTC, MD5, EAPMSCHAPV2.

The TLS EAP methods and TLS Phase 2 authentication allows to provide a 802.1X user certificate installed in your TAB10b device when required by your RADIUS server configuration.

The *TLS*, *TTLS*, and *PEAP* methods allow to activate the 802.1X CA certificate validation. The 802.1X CA certificate must be installed first in your TAB10b device. For further information about certificates installation, refer to the chapter § Certificates.

• The 802.1X CA certificate is the certificate with the highest autority for your RADIUS server. For further information, please contact your IT department.

■ In this AQS version, it is not possible to select the Use system certificates value for the Validation of the 802.1X CA certificate input for LAN_1 interface.

w When using 802.1X certificates, in case your device is not on time or when the 802.1X certificates expiration date has expired, the device is not able to access to the network anymore. To work around, you have to insert one USB stick containing a suitable configuration script to install an appropriate certificate or to update the device date and time.

■ A new negociation with the RADIUS server with the programmed LAN_1 802.1X security is required as soon as a down/up event is detected at the input of the port of the 802.1X router, meaning when a RJ45 cable is unplugged or when the device is restarting. If intermediate network devices are present between the device and the 802.1X router, the 802.1X router may not detect down/up event and may keep a previous negociation alive if one has been successful just before.

4.1.3 Configuration > WLAN_1

In the configuration tab, select the WLAN_1 menu to set up the network configuration of the WLAN_1 interface on your device.

As soon as the wLAN_1 configuration is deactivated through the device configuration Web user interface, or if the wLAN_1 interface is not properly configured, the network connection with the device is lost. The only way to connect to it again is to create again a wLAN_1 connection again with Android Settings App or to inject, with an USB-A storage device and a USB-A to USB-C hub, a configuration script having a suitable wLAN_1 configuration.

△ After having removed a registered wLAN_1 network, the removal is effective as soon as the user clicks on the Validate button. If there is no other valid registered wLAN_1 network, the only way to connect to the device again is to connect a RJ45 Ethernet cable or to inject, with an USB-C storage device, a configuration script having a suitable wLAN_1 configuration.

 Δ The devices uses only one network interface at a time. The wLAN_1 has priority over LAN_1.

△ In DHCP mode, if neither the LAN_1 connectivity nor the WLAN_1 connectivity is working or the WLAN_1 interface is deactivated, the IP address value is *unavailable*. In some case, a valid IP address can be got back few dozens of seconds after the network connectivity is restored on WLAN_1 interface or on LAN_1 interface.

■ The connection from a computer to the device configuration Web user interface with the device IPV6 address, computed from the device wLAN_1 MAC address value, is supported. To connect to the IPV6 address of the wLAN_1 interface, the LAN_1 connection must be down. For example, if the wLAN_1 MAC address of the device is 00-1c-e6-02-27-bf, type the URL http://[fe80::21c:e6ff:fe02:27bf]/ or http://[fe80::21c:e6ff:fe02:27bf]/ or http://[fe80::21c:e6ff:fe02:27bf]/ or http://[fe80::21c:e6ff:fe02:27bf]/ or http://[fe02:27bf]/ or <a href="http://[

Procedure to configure the WLAN_1 interface with the configuration Web user interface when your network supports DHCP:

- 1. it is considered here that the network connectivity is OK over the LAN_1 interface,
- 2. connect to the device configuration Web user interface with a Web browser:
- 3. add a valid wLAN_1 configuration (SSID, authentication, crypto key),
- 4. reboot the device with the device configuration Web user interface.
- 5. connect to the device configuration Web user interface with a Web browser with the valid wLAN_1 IP address of the device. If the WIFI connection is done, you can connect to the device configuration Web user interface also now with its wLAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:62e3] get from the MAC.WLAN1 value written at the back of the device).

Procedure to configure the WLAN_1 interface with the configuration Web user interface when your network does not support DHCP:

- 1. it is considered here that the TAB10b device is connected to a *NAPOE109ku* device, a *NAPOE109kt*, or a *NAPOE109ft* device which is connected to a POE switch,
- 2. disconnect the RJ45 cable (cable1 for network1) from your computer,
- 3. connect a RJ45 cable (cable2 for network2) between your computer and the PoE switch,
- 4. connect to the device configuration Web user interface with a Web browser with its LAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:5694] get from the MAC value written at the back of the NAPOE109XX device),
- 5. deactivate IP address get by DHCP for WLAN_1 and enter a valid static address configuration (IP address, subnet mask, gateway, DNS),
- 6. add a valid wLAN_1 configuration (SSID, authentication, crypto key),
- 7. reboot the device with the device configuration Web user interface,
- 8. disconnect the RJ45 cable (cable2 for network2) from your computer and reconnect the previous RJ45 cable (cable1 for network1),
- 9. connect to the device configuration Web user interface with a Web browser with the valid wLAN_1 IP address of the device. If the WIFI connection is done, you can connect to the device configuration Web user interface also now with its wLAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:62e3] get from the MAC.WLAN1 value written at the back of the device).

Procedure to configure the WLAN_1 interface with a configuration script:

- 1. inject a USB storage device having a suitable configuration script on the USB hub connected to the USB-C connector of the TAB10b device. And wait device reboot.
- connect to the device configuration Web user interface with a Web browser with the valid wLAN_1 IP address of the device. If the WIFI connection is done, you can connect to the device configuration Web user interface also now with its wLAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:62e3] get from the MAC.WLAN1 value written at the back of the device).

Procedure to configure the WLAN_1 interface with a configuration script pushed by file transfer¹ with an USB cable between the computer and the TAB10b device (the device must be supplied properly by the computer, by the NAPOE109kt device or by the NAPOE109ft device):

- 1. push a suitable configuration script on the .configuration directory of the device file system from a computer. And wait device reboot.
- connect to the device configuration Web user interface with a Web browser with the valid WLAN_1 IP address of the device. You can connect to the device configuration Web user interface also now with its WLAN_1 IPV6 address (for example http://[fe80::21c:e6ff:fe02:62e3] get from the MAC.WLAN1 value written at the back of the device).

¹ For further information, refer to the chapter § Appendix: File transfer from a computer.

It is also possible to configure the wLAN_1 interface directly with Android Settings App.

To detect the WIFI spots SSID, click on the Scan button.

w In case the SSID of your WIFI router is not broadcasted (or hidden), click on the Add button to add manually a WLAN_1 interface. Enter the wished SSID value and check the option The SSID is hidden.

TAB10		Reboot the device	English \vee
Configuration			
Administrat			
∑ LAN_1	Registered networks	Scan	
Qutput		•	
🛋 Apps		•	
Servers Servers			
Certificates			
🔿 Date and ti	e		
Regionality			
Tasks			
\$() Variables			
Maintenance	× .		
Information	× .		

Select one of the detected wIFI $\ensuremath{\mathsf{spots}}$ SSID and press on the $\ensuremath{\mathsf{Add}}$ button.

TAB10 by Qeedji				Reboot the device English \vee	
Configuration ^	🗢 Configuratio	on > WLAN_1		Validate Cancel	
Administrator S LAN_1 WLAN_1	WLA Register W	/ifi Scan		Scan	
Qutput		SSID	Signal level	` O	
Apps		Innes_R&D_2.4Ghz	+	0	
Servers		Livebox-3ce2	•		
Certificates		HUAWEI-B525-192D	•		
O Date and time		Innes_5GHz	Ŷ		
Regionality		Innes	Ŷ		
Tasks \$() Variables	1	Innes_R&D_5Ghz	Ŷ		
		Livebox-5b98	Ŷ		
Maintenance ~		HUAWEI-B525-5G-192D	\$ `	·	
Information V	Ŀ		Cancel Add		

Choose whether the IP address is static or given by the DHCP server. If static, fill the suitable parameters like subnet mask , gateway and DNS .

TAB10		A reboot is required to take into account the configuration change Reboot the device	English 🗸
Configuration ^	🗢 Configuration > WLAN	N_1	
Administrator S LAN_1	WLAN Registered networks		Scan
 WLAN_1 Output Apps 	Innes_R&D_2.4Ghz		•
 Servers Certificates Date and time Regionality 	SSID Hidden Yes	s_R&D_2.4Ghz ssing automatically by DHCP ng IP addressing	
fiii Tasks \$() Variables Maintenance	IP address Subnet mask	192.168.2.211 255.255.128.0	
Information V	Default gateway		
	DNS 1	8.8.8.8	
	DNS 2 DNS suffixes		
	Proxy server No No configuration r	lo proxy v	
	Security None	~	

To use a specific Proxy server for WLAN_1 interface, select the Manual proxy configuration in the Proxy servers drop down list then enter your proxy configuration.

TAB10 by Qeedji						Reboot the device	English	~
Configuration ^	중 Configuration > WLAN_1						Validate	Cancel
 Administrator LAN_1 WLAN_1 Output 	WLAN Registered networks Innes_R&D_2.4Ghz				Scan			,
Apps Servers					•			
 Certificates Date and time Regionality 	SSID Innes_R&D_2.4Ghz SSID Hidden No Obtain IP addressing automatic	cally by DHCP						
Tasks	Use the following IP addressing							
\$() Variables	IP address							
Maintenance V Information V	Subnet mask Default gateway DNS 1 DNS 2 DNS suffixes Proxy server Manual proxy co	nfiguration	~					
	Address	Port	- 8080	+				
	Username	Password			۲			
	No proxy for							
	Example: qeedji.tech, 192.168.0.1	/24						
	Security WPA-Personal (PSK),	WPA2-Personal (PSI	() ~					
	Key (8 to 63 ASCII characters)			۲	8			

To use an automatic Proxy server configuration for WLAN_1 interface, select the Automatic proxy configuration in the Proxy server drop down list then enter the PAC file URL allowing to get automatically the proxy server configuration.

For example: https://domain.contoso.en/dir/my-proxy-auto-conf.pac

tabio by Qeedji		Reboot the device	English	~
Configuration ^ 🗢 Configuration >	/LAN_1		Validate	Cancel
Administrator				^
S LAN_1 Registered networ	5			
SWLAN_1 Innes_R&D_2.4Gh	•		Scan	
Output			÷	
Apps			•	
Servers				
Certificates SSID	nnes_R&D_2.4Ghz			
O Date and time SSID Hidden				
•	dressing automatically by DHCP			
	owing IP addressing			
\$() Variables IP address	192.168.2.211			
Maintenance ~ Subnet ma	x 255.255.128.0			
Information ~ Default ga	way 192.168.0.1			
DNS 1	8.8.8.8			
DNS 2				
DNS suffix				
Proxy serve	Automatic proxy configuration			
URL			•	
Security	one			
None				

The supported securities¹ are:

- None,
- WEP, ٠
- WPA-Personal (PSK),
 WPA2-Personal (PSK),
- WPA-Enterprise (EAP)², •
- WPA2-Enterprise (EAP)².

¹ Ad hoc Wi-Fi is not supported.

² This securities requires to have a RADIUS server properly configured and to have specific WIFI router supporting WPA-Enterprise or WPA2-Enterprise.

Fill the required crypto keys for these securities:

- WEP,
- WPA-Personal (PSK), •
- WPA2-Personal (PSK).

The allowed length for WEP crypto key is:

- 5 or 13 digits when using ASCII-7bits characters,
 10 or 16 digits when using hexadecimal characters.

			Reboot the device English \vee
Configuration ^	☆ Configuration > WLAN	1	Validate
2 Administrator	WLAN		
S LAN_1	Registered networks		
🗢 WLAN_1	Innes_R&D_2.4Ghz		Scan
Qutput			•
Apps			•
Servers			
Certificates		R&D_2.4Ghz	
O Date and time	SSID Hidden No		
Regionality	 Company of the start of the sta	ing automatically by DHCP	
Tasks	 Use the following 		
\$() Variables	IP address	192.168.2.211	
Maintenance ~	Subnet mask	255.255.128.0	
Information ~	Default gateway	192.168.0.1	
	DNS 1	8.8.8.8	
	DNS 2		
	DNS suffixes		
	Proxy server No	proxy ~	
	Security WEP	naracters, 10 or 26 hexadecimal characters)	 C

The allowed length for WPA-Personal (PSK) and WPA2-Personal (PSK) crypto key is 8 to 63 digits. Only ASCII-7bits characters are allowed for the crypto key.

TAB10 by Geedji	Reboot the device English	~
Configuration ^ 🗢 Configuration > WLAN_1	Validate	ancel
Administrator S LAN_1 Registered networks		
☆ WLAN_1 Innes_R&D_2.4Ghz	Scan	
Qutput	0	
Apps	•	
Servers		
Certificates SSID Innes_R&D_2.4Ghz		
O Date and time SSID Hidden No		
Regionality Obtain IP addressing automatically by DHCP		
Tasks Use the following IP addressing		
\$() Variables IP address 192.168.2.211		
Maintenance × Subnet mask 255.255.128.0		
Information Default gateway 192.168.0.1		
DNS 1 8.8.8.8		
DNS 2		
DNS suffixes		
Proxy server No proxy		
No configuration required		
Security WPA-Personal (PSK)		
Key (8 to 63 ASCII characters)	· 🖉 🖗	
Pairwise key cipher CCMP (AES) TKIP	~	
Group key cipher CCMP (AES) TKIP	~	

If the WPA encryption of your router is unknown or if the WPA encryption of your router is Auto, do rather use the default value corresponding to the automatic mode:

Pairwise key cipher	Group key cipher
CCMP (AES) TKIP	CCMP (AES) TKIP

If the WPA encryption of your router is TKIP, it is possible to use:

Pairwise key cipher	Group key cipher
ТКІР	ТКІР
CCMP (AES) TKIP	CCMP (AES) TKIP

If the WPA encryption of your router is CCMP (AES), it is possible to use:

Pairwise key cipher	Group key cipher
CCMP (AES)	CCMP (AES)
CCMP (AES) TKIP	CCMP (AES) TKIP

In case WPA-Enterprise (EAP) and WPA2-Enterprise (EAP) security:

- choose one EAP method among PWD, PEAP, TLS and TTLS. The chosen EAP method must be supported by your RADIUS server,
- choose the Phase 2 authentication among: NONE, PAP, MSCHAP, MSCHAPV2, GTC. The chosen Phase 2 authentication must be supported by your RADIUS server and is required only for PEAP and TTLS EAP methods.

tablo u∰D by Qeedji				Reboot the device	English 🗸	
Configuration ^ 🗢 Confi	iguration > WLAN_	1			Validate Cancel	
🂁 Administrator	LAN					^
	tered networks					
S WLAN_1 Innes	s_R&D_2.4Ghz				Scan	
Qutput					G	
Apps					0	
Servers					_	
		R&D_2.4Ghz				
• Bate and ante	SID Hidden No					
		ing automatically by D	НСР			
	Use the following	IP addressing				
\$() Variables	IP address	192.168.2.211				
Maintenance 🗸	Subnet mask	255.255.128.0				
Information \vee	Default gateway	192.168.0.1				
	DNS 1	8.8.8.8				
	DNS 2					
	DNS suffixes					
	Proxy server No	proxy	~			
	No configuration re	quired				
	no comgutation re	quirea				
	Security WPA2-E	nterprise (EAP)				
	,	····· · · · · · · · · · · · · · · · ·				
	Pairwise key cipher	TKIP			\sim	
	Group key cipher	TKIP			~	
	EAP method TLS		~			
	Validation of the	802.1X CA certificate	Qeedji (Qeedji Certificate Authority)		\sim	
	Provision of the 8	302.1X user certificate	Qeedji (001CE6025A7B)		\sim	
	Identity		001CE6025A7B			

• In the context of a secure network, your device must be first declared in your dedicated RADIUS server with a identity / password. For further information, please contact your IT department.

When required, fill the Identity / password declared for your device in your RADIUS server.

When displayed, the Anonymous identity field value is optional.

The TLS EAP methods and TLS Phase 2 authentication allow to provide a 802.1X user certificate installed in your TAB10b device when required by your RADIUS server configuration.

The *TLS*, *TTLS*, and *PEAP* methods allow to activate the 802.1X CA certificate validation. The 802.1X CA certificate must be installed first in your TAB10b device. For further information about certificates installation, refer to the chapter § Certificates.

• The 802.1X CA certificate is the certificate with the highest autority for your RADIUS server. For further information, please contact your IT department.

■ The Domain of the 802.1X CA certificate input is diplayed only when using the Use system certificates value for the Validation of the 802.1X CA certificate input. The Domain of the 802.1X CA certificate input must not be kept empty. In case the certificate with highest authority for your RADIUS server is already embedded in the AOSP SYSTEM trusted credential, you can select the Use system certificates input value for the Validation of the 802.1X CA certificate input. In this case, during the communication with the RADIUS server, AQS checks whether the trusted certificate of the Radius is really trusted by a certificate with a higher authority embedded in the AOSP SYSTEM trusted cerdential basis, then checks its trustness chain. AQS checks then, in addition, that the commonName value of the Radius certificate is properly reported in the Domain of the 802.1X CA certificate input.

w When using 802.1X certificates, in case your device is not on time or when the 802.1X certificates expiration date has expired, the device is not able to access to the network anymore. To work around, you have to insert one USB stick containing a suitable configuration script to install an appropriate certificate or to update the device date and time.

4.1.4 Configuration > Output

In the Configuration tab, select the Output menu to watch the video output configuration and set the audio output configuration.

TAB10		$\begin{array}{c c} \hline \textbf{Reboot the device} & \textbf{English} & \checkmark \end{array}$
Configuration	^	Configuration > Output
 Administrator LAN_1 WLAN_1 Output Apps Servers Certificates Date and time Regionality 		Screen resolution 1280x800 Volume of multimedia contents 33%
Tasks		
\$() Variables Maintenance		
Information	~	
mormation	~	

Screen resolution:

• 1280x800.

- ➡ The rotation 90°, 180°, 270° is not supported on the tablet.
- Audio output:
 - audio way selection:
 - Automatic: if an USB-C to Jack 3.5" adapter is plugged, the audio is output in priority on it,
 - Internal: the audio is output on the speaker,
 - USB Audio: the audio is output on the USB-C to Jack 3.5" adapter.
 - Volume of multimedia contents bargraph: allows to tune the audio volume common to the different audio outputs (Speaker, USB).

☞ If your TAB10b device is supplied by a NAPOE109kt device or a NAPOE109ft device, the device can support a Jack 3.5 audio output by plugging an USB-C to Jack 3.5" audio adapter on the USB-C connector.

• Some manufacturers of USB-C to Jack 3.5" audio adaptors may apply significant attenuation to the jack output. Please check this before ordering such a device.

4.1.5 Configuration > Apps

In the configuration tab, select the **Apps** menu to manage the Apps installed in the AQS operating system, whose launching at device start-up can be activated or deactivated.

The Apps column of the table allows to watch the Apps installed in the AQS operating system:

- the vendor Apps (App installed by default by the vendor at factory),
- all the Apps installed by the user.

■ In this AQS version, the only vendor Apps are the Media Folder Injector (V1.10.10) App, the Power BI Online Viewer (V1.10.10) and the URL Launcher (V1.10.17) App. The activated status of the vendor App is unchecked by default. Consequently, they are not running by default.

		Reboot the device	English \vee
Configuration ^	☐ Configuration ⇒ Apps		
Administrator	Apps	Activated	Install an App
WLAN_1	Nedia Folder Injector		Uninstall the App
Output	4 Power BI Online Viewer		Restart the App
Apps	G URL Launcher		
Servers			Stop the App
Certificates			
Date and time	This App has no configuration page		
Regionality			
Tasks			
\$() Variables			
Maintenance v			
Information ~			
internation			

• The number of visible raws is five maximum. If more than five APK are installed, scroll the table to the bottom to watch the other raws of the table. The Apps are sorted in the alphabetical order.

The pane supports four buttons to manage the Apps :

- Install the App : allows to install an APK (.apk) on the device from a computer,
- Uninstall the App ¹: allows to uninstall the APK that is selected,
- Restart the App button: allows to start (or restart) the APK that is selected,
- Stop the App button: allows to stop the APK that is selected.

An App can be installed by:

- uploading any compatible APK (.apk) with the Install the App button,
- pushing any compatible APK (.apk) on the .apps WebDAV directory of the device with a WebDAV client or with a third party software,
- using the Maintenance > Files pane of the device configuration Web user interface to upload any compatible APK (.apk),
- insert an USB-C storage device containing a compatible APK (.apk) on the device.

Any App newly installed is activated by default, meaning that:

- its associated APK pictogram is available on the AQS desktop,
- when the APK supports the autorestart AOSP feature, it is started automatically after the device boot-up.

Some Apps consist in a couple of APK (*main* part + *UI* part). This is an example when the Qeedji PowerPoint publisher for media player App is installed and properly activated:

- PowerPoint Publisher (for the main part):
 checkbox Activated : checked,
- PowerPoint Publisher UI (for the UI part):
 - checkbox Activated: checked.

TAB10 by Qeedji		
onfiguration	 Configuration > Apps 	
🂁 Administrator		
S LAN_1 중 WLAN_1	Apps	Activated Install an A
	Nedia Folder Injector	Uninstall the
Output	4 Power BI Online Viewer	Restart the
Apps	PowerPoint Publisher	
Servers	PowerPoint Publisher UI	Stop the A
	G URL Launcher	
Certificates		
O Date and time		
Regionality		
RegionalityTasks		
Tasks () Variables	s -	
Tasks \$() Variables		
Tasks \$() Variables aintenance		
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Tasks \$() Variables aintenance		
Tasks \$() Variables aintenance		
Tasks \$() Variables aintenance		
Tasks \$() Variables aintenance		
Tasks \$() Variables aintenance		

¹ In case an App is partially or entirely uninstalled, meaning removed from this table by clicking on the Uninstall the App button, the App cannot run anymore. To fix the problem, the App must be reinstalled or the App content must be published again. Then the device must reboot once.

Apps restart/stop

Any activated APK can be:

- started or restarted with the Restart the App button,
- stoppped with the Stop the App button.
- For the Apps consisting in a couple of APK (main part + UI part), only the main part of the App can be restarted.

Flying over an App allows to know the App status showing whether the App is started or not:

- *Running*: the App is started,
- Stopped: the App is stopped.

Apps deactivation

- All the Apps supporting the autorestart AOSP feature are launched automatically after a device boot-up, but only one of them can be visually rendered on the screen. Given that the AQS operating system cannot choose, among the activated Apps, the one which must be visually rendered on the screen, and given that device resources (CPU, DDR, video decoder) are shared between the APK which are executed at the same time, it is advised to keep an only one activated APK at a time.

With the table of installed Apps , it is easy, with the appropriate checkbox in the Activated column, to see the Apps that are activated and then voluntarily choose to deactivate those that are temporarily not useful for your current need.

■ If an App is not useful at all, the best is to uninstall it with the Uninstall the App button.

Some Apps consist in a couple of APK (*main* part + UI part). When such an App needs to be deactivated, the both parts of the App must be deactivated.

This is an example with the Qeedji PowerPoint publisher for media player App properly deactivated:

- PowerPoint Publisher (= the main part):
 checkbox Activated : unchecked,
 - PowerPoint Publisher UI (= the UI part):

•

checkbox Activated: unchecked.

onfiguration	~	🔂 Configuration > Apps		
	^	Connguration > Apps		
Administrator		Apps	Activated Install an	а Арр
S LAN_1		Media Folder Injector		
♥ WLAN_1		Power BI Online Viewer	Uninstall th	
Output		P PowerPoint Publisher	Restart the	
Apps		PowerPoint Publisher UI	Stop the A	Арр
Servers Servers		🗟 URL Launcher		
Certificates				
🛇 Date and time				
Regionality				
Tasks				
\$() Variables	~			
\$() Variables aintenance				
\$() Variables	~			
\$() Variables aintenance				

A If ever only the *UI* part of the App is not activated, and the *main* part of the App is kept activated, publishing the same App with the appropriate third party software could not lead to the automatic App start. To work around, activate back the *UI* part APK of the App then reboot the device.

This is an example with the Qeedji PowerPoint publisher for media player App not properly deactivated:

- PowerPoint Publisher (= the main part):
 checkbox Activated : checked,
- PowerPoint Publisher UI (= the UI part):
 checkbox Activated : unchecked.

		Reboot the device	English 🗸
Configuration	Configuration > Apps		
Administrator	Арря	Activated	Install an App
♥ WLAN_1	🔪 Media Folder Injector		Uninstall the App
Qutput	🤞 Power BI Online Viewer		
Apps	PowerPoint Publisher		Restart the App
Servers	😰 PowerPoint Publisher UI		Stop the App
Certificates	Search URL Launcher		
Regionality			
Tasks			
\$() Variables			
Maintenance			
Information ~			

Apps reactivation

After having checked back the activation checkbox for an App, click on the Reboot the device button to finalize the operation.

A If ever only the *UI* part of the App was not activated, and the *main* part of the App was kept activated, activate back the *UI* part of the App then click on the Reboot the device button to finalize the operation.

App form (optional)

Some APK can support a configuration form. To watch the configuration form for an App , select the appropriate App . If a form is supported for this App, the form of the Apps appears just below the table of installed Apps .

When the selected App does not support a configuration form, the additional This App has no configuration page information label is displayed below the table of installed Apps .

Vendor APK: URL Launcher

△ It is advised to activate only one vendor APK or only one third party APK at a time.

Name	Version	Description
URL Launcher	1.10.17	Allows to play a Web page hosted on a simple Web server.

The form of the URL launcher APK contains several configuration fields:

- Connnection account:
 - Simple Web server,
- Ur1 : URL of the Web page,
- Credential:

٠

- none,
- Username/password for a basic authentication
 - Identifier : credential username to access to the Web page,
 - Password : credential password to access to the Web page,
- Username/password for a webpage form
 - Identifier : credential username to access to the Web page,
 - Password : credential password to access to the Web page,
- Page refresh period : refresh the Web page content every period value,
- Launches the App when the device starts : if checked, this option allows to start automatically the App when the device starts.

After having modified a form's parameter value, the App must be restarted or the device restarted so that the modification are taken into account.

TAB10	Reboo	t the device	English	~
Configuration ^	🔁 Configuration > Apps		Validate	Cancel
Administrator S LAN_1		Activated	Install a	n App
♥ULAN_1 Output	Media Folder Injector Jewer Bl Online Viewer		Uninstall t	
Apps	📓 URL Launcher		Restart ti Stop the	
Servers Certificates	Connection account Simple web server v			
 Date and time Regionality 	Url			
Tasks \$() Variables	Example: http://qeedji.tech, https://qeedji.tech			
Maintenance ~ Information ~	Identifier			
	Password		٢	U
	Page refresh period 00:01:00 One minute minimum Start the App after boot completed Image: Completed Image: Completed			

TAB10 by Qeedji	Reboot the device	English \vee
Configuration ^	🔁 Configuration > Apps	Validate Cancel
 Administrator LAN_1 WLAN_1 Output Apps 	Apps Activated Media Folder Injector Image: Comparison of the second of the	Install an App Uninstall the App Restart the App Stop the App
 Servers Certificates Date and time Regionality Tasks (1) Variables 	Connection account Simple web server Urt Example: http://qeedji.tech, https://qeedji.tech	
Maintenance ~ Information ~	Credential Identifier/Password for a Webpage form v Identifier Password Password	 Image: Contract of the second s
	Page refresh period 00:01:00 One minute minimum Image: Start the App after boot completed Image: Start the App after boot completed	

Vendor APK: Media Folder Injector

△ It is advised to activate only one vendor APK or only one third party APK at a time.

Name	Version	Description
Media folder Injector	1.10.10	Allows to play the content copied from an USB storage device. The USB storage device must be inserted in the device then removed from the device each time the content must be updated.

The form of the Media Folder Injector APK contains several configuration fields:

- Error display default duration : allows to configure the duration of the error message displayed for example when the media is not supported,
- Image display default duration : allows to set the display duration for images,
- Enforce on media with pagination a page progression with a default page duration : allows to set a time per page for pages that have not a defined one,
- Background color : allows to define the content background color (default value: black color),
- Recursively scan sub-directories : if not checked, this option allows to play only the media located at the root of the USB storage device. If checked, it allows to play also the medias located in the folders of the USB storage device,
- Launches the App when the device starts : if checked, this option allows to start automatically the App when the device starts.

After having modified a form's parameter value, the App must be restarted or the device restarted so that the modification are taken into account.

TAB10		A reboot is required to tal	e into account the configuration change	Reboot the device	English \vee
Configuration ^	Configuration > Apps				
Administrator LAN_1 WLAN_1 Output Apps	Apps Media Folder Injector Power Bl Online Viewer URL Launcher			Activated	Install an App Uninstall the App Restart the App Stop the App
 Servers Certificates Date and time Regionality Tasks Variables 	Error display default duration Image display default duration Enforce on media with pagination a page progression with a default page duration Background color Recursively scan sub-directories Launch the App when the device starts		seconds seconds		

• Only these viewable medias are supported:

- videos: .mp4, .m4v, .webm,
- images: .jpg, .png, .svg, .gif
- presentations: *.pdf, *.pptx*, *.ppsx*,
- HTML widgets: .maff, .wgt.
- Consequently, the audio medias (.mp3, .m4a) are not supported by the Media folder Injector APK.
 - When the media is not supported, these errors can be raised:
 - Content temporarily unavailable (code 0): this kind of media is not supported. Remove this media from your content.
 - Content temporarily unavailable (code 4): this media not supported by your device. Remove this media from your content.
- Each viewable medias is played until it is ending. The viewable medias must have an intrinsic duration to have a determinist end time.
- Do consider that .html or .htm files are not supported. Indeed, when this kind of file is played, it never ends.
- When all the medias have been played once, the APK restarts to play the first one.
- When a new content is available in the USB storage device, all the obsolete medias and all the obsolete folders are removed from the device and the new ones are copied on the device.
- When the Media Folder Injector APK is launched, the medias located at the root of the USB storage device and the medias located in the folders are copied then played in the alphabetical order. A folder name is considered as playfolder of medias to play, consequently the names of the folders are also evaluated to define the alphabetic sorting. If you want to control the order of the medias playback, it is not advised to have a folder depth greater than one folder. When the media name has a number as prefix, the entire number prefix is evaluated to determine the alphabetical sorting.
- The viewable medias can be stored at the root of the USB storage device or in some folders. When the Recursively scan sub-directories option is deactivated, only the medias located at the root of the USB storage device are played. When there is no media to play at the root in this case, a message is displayed on the screen: *Information: no content*.
- When an empty USB storage key is inserted in the device, the medias are all removed from the device then a message is displayed on the screen: *Information: no content.*
- When a 00000000000.js or a configuration.js script, an .apk file, or a .fqs firmware file is found at the root of the USB storage device, the copy of the medias cannot be done, consequently the Media Folder Injector APK cannot update its content with the USB storage device's one.

Vendor APK: Power BI Online Viewer

△ It is advised to activate only one vendor APK or only one third party APK at a time.

Name	Version	Description
Power BI Online Viewer	1.10.10	Allows to view a Power BI report URL or a Power BI dashboards URL.

The available credential type values are:

- Microsoft OAuth User : the Microsoft 365 identifier and password and these Azure AD application parameters are required to access to the resource (Web page):
 - Tenant ID¹,
 - Client ID¹,
 - Secret ID¹,
 - Username,
 - Password.
 - Microsoft OAuth application : these Azure AD application parameters are required to access to the resource (Web page):
 - Tenant ID¹,
 - Client ID¹
 - Secret ID¹,

In the Url field, paste the URL of:

- your Power BI report:
 - this is a Power BI report URL example:
- https://app.powerbi.com/groups/d1119fde-7bb0-4642-b367-898a0450062c/reports/259ddad1-eec8-4003-9b43-290f40e68c5d/ (fake)
 your Power BI dashboard:
 - this is a Power BI dashboard URL example:
 - https://app.powerbi.com/groups/d2e637a2-268e-4739-93b3-945692cd2c84/dashboards/d01ce209-87cc-4669-a864-33a5b3029b28/ (fake)

		Reboot the device English \checkmark]
Configuration	^	🖻 Configuration > Apps	
Administrator LAN_1 WLAN_1 Utput Apps Servers Certificates Date and time		Apps Activated Install an App Media Folder Injector Uninstall the App Ø Power Bl Dolline Viewer Image: Comparison of the App Ø Uk Launcher Stop the App	
 Regionality Tasks Variables Maintenance Information 	*	Example: https://app.powerbi.com/groups/ <group-id>/reports/<report-id>/<document-id>, https://app.powerbi.com/groups/<group-id>/dashboards/<dashboard-id>/<document-id> Credential Microsoft OAuth Application Tenant ID Client ID</document-id></dashboard-id></group-id></document-id></report-id></group-id>	
		Client secret Cl	

¹ An Azure AD application must be created with *Microsoft Power BI* administration account to allow third party applications to access to the Power BI reports and to the Power BI dashboards stored in your Microsoft Power BI workspace. For further information, refer to the chapter § Appendix: Microsoft Azure AD portal for Microsoft Power BI application.

The Viewing time of the report pages allows to set the viewing duration per report page.

- The Viewing time of the report pages parameter is not taken into account when visualizing a Power BI dashboard.

The Filter viewed pages , when matching the following syntax, allows to display only some of the report pages:

- if no filtering value is set, all the pages of the report are viewed
- e.g. 1..3: allows to display the report from the page 1 to the page 3
- e.g. 1, 5: allows to display only the page 1 and the page 5 of the report
- e.g. 2..: allows to display the report from the page 2 to the last page
- e.g. ..10: allows to display the report from the first page to the page 10

The Filter viewed pages parameter is not taken into account when visualizing a Power BI dashboard.

The viewing of reports only available on your Microsoft Power BI Desktop are not supported on the devices. A pro license is required for your Power Bi Desktop to publish your report on your Microsoft Power BI Workspace.

■ The information message Error - Invalid configuration means that the Power BI Online Viewer APK has been activated but the inputs of the Power BI Online Viewer form have not been filled properly.

■ The information message Error - Unable to show Power BI report (error HTTP 404) means that the Azure AD application can not find the report or the dashboard in the workspace. The information message Error - Unable to show the Power BI report (error HTTP 401) Or Error - Unable to show the Power BI report (error HTTP 400) means that either some parameter values of the Azure AD application parameters are wrong, or some rights are missing to view the report.

• The data of Power BI dashboards visuals based on the API{} mode of the realtime data streaming semantic model can be updated only when using the Microsoft OAuth application credential type.

🖝 The information message Error - Unable to show Power BI report (error HTTPØ) means that the device has lost network connectivity.

Custom screensaver APK

This AQS version supports the installation of custom screensaver APK which replaces the default AQS screensaver com.android.dreams.basic/com.android.dreams.basic.Colors that is displaying a colors gradient.

The screensaver is not activated by default. The screensaver can be activated by setting the user preference system.screen.stay_on to the value 0.

When the screensaver is activated, the default user inactivity timeout before entering into sreensaver is defined by the system.screen_off_timeout user preference (defaut value in milliseconds: 60000).

The AQS screensaver stops automatically when the user touches the screen.

△ The AQS screensaver is executed when there is no user activity detected. The AQS screensaver can not be excecuted while a media with video is played in your main App (video track, Web TV URI, MS-PowerPoint presentation with video). When no media with video is played anymore, the AQS screensaver is executed after the system.screen_off_timeout duration. When the AQS screensaver is executed, playing a media with video again in your main App doesn't stop the screensaver. In this case, the audio of the media with video may persist during the AQS screensaver.

△ Some third party APK or some vendor APK like for example the Media Folder Injector APK, are designed to not allow the AQS screensaver to start.

A When the AQS screensaver is activated on your device, some third party App may be able to support either their own the screensaver or the AQS screensaver . For further information, contact support@qeedji.tech.

A When the AQS screensaver is activated, the third party App must support properly the modification of their activities like onPause(), onStart(), onResume(), onStop() else the third party App may be not able to restart properly after exiting AQS screensaver and may display a black content.

A custom AQS screensaver APK can be installed like any other APK and is designed to be executed automatically by the AQS as the same time as:

- one vendor APK,
- one third party APK.

when installed properly, the custom AQS screensaver replaces the default AQS screensaver. Either the defaut AQS screensaver or the custom AQS screensaver can run at a time.

The custom screensaver APK must be developed by ISV. A custom screensaver APK example with its configuration script is available here github av_stream_reader_screensaver APK. Once the custom AQS screensaver APK is installed on the device, it is by default *activated* in the table of installed APK. But the custom AQS screensaver APK is not yet configured. To configure it, it is advised to use the configuration script related to the custom AQS screensaver APK github av_stream_reader_screensaver 00000000000.js. Your third party App may have to call the goToScreen() API and keepScreenOn() API to decide when the AQS screensaver must run or not. For further information, refer the TAB10b developer manual.

- The custom AQS screensaver APK cannot be restarted through the device configuration Web user interface because the startup of the AQS screensaver is handled by the AQS only as soon as no user activity has been detected for <n> seconds (60 by default).
- In this version, The running/stopped status of the screensaver APK is not consistent.

To deactivate the custom AQS screen saver APK, uncheck the custom AQS screen saver APK in the table of installed APK. After that, the default AQS screensaver becomes back the AQS screensaver.

This is the set of screensaver user preferences to restore the factory screensaver preferences:

User preferences name	Default value	Information
secure.screensaver_components	com.android.dreams.basic/com.android.dreams.basic.Colors	default AQS screensaver (color gradient)
secure.screensaver_enabled	1	1: AQS screensaver enabled, 0: AQS screensaver disable
system.screen.stay_on	1	<i>0</i> : allow AQS screensaver, 1: do not allow AQS screensaver
<pre>system.screen_off_timeout</pre>	120000	120000: timeout value in ms before going into screensaver

TestCard App

The Test card App, allowing to display the Test Card content, is not displayed in this table. To deactivate the Test card App launching at device start-up, refer to the chapter § Maintenance > Test card.

4.1.6 Configuration > Servers

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

The NTP server input allows to either choose the default Aqs NTP server¹ or enter your favorite NTP server domain so that the device is always on time.

¹ the default NTP server URL is time.android.com.

TAB10		Reboot the device English \sim
Configuration	^	Configuration > Servers
Image: Second secon	1 t s cates nd time	NTP time server O Default Others Maximum waiting time - 5000 +
\$() Variabl		
Maintenance	~	
Information	~	

4.1.7 Configuration > Certificates

In the Configuration tab, select the **Certificates** menu to install:

- Trusted certificates,
- 802.1X certificates (related to the RADIUS server),
- VPN certificates.

Click on the + button of the appropriate sections to add a certificate.

TAB10 by Qeedji	Reboot the device English	~
Configuration ^	⑦ Configuration ⇒ Certificates	
 Administrator LAN_1 WLAN_1 Output 	Trusted certificates	
Apps Servers Certificates	802.1X certificates	
 Date and time Regionality 	VPN certificates	Ì
Tasks \$() Variables	٤	
Maintenance ~ Information ~	8	
Information ~		

This is an example with some 802.1X certificates loaded in the TAB10b device.

TAB10		Reboot the device	English	~
Configuration ^	Configuration > Certificates			
 Administrator LAN_1 WLAN_1 Output Apps Servers Certificates Date and time Regionality 	Trusted certificates 802.1X certificates Qeedji (001CE6025A7B) User certificate, Private key Qeedji (Qeedji Certificate Authority) CA certificate			* #
Tasks \$() Variables Maintenance Information	VPN certificates			±

w In case the remote content (for example an .ics) must be read on a server available in https, but the server's certificate is not signed, it may be required to install the server certificate both in the *Trusted* certificates section and in the *VPN* certificates sections to make the certificate trusty.

w When both the 802.1X CA certificate and the 802.1X user certificate are installed by a configuration script, they are regrouped under only one certificate in this pane. This certificate available in this pane can be used as well in the Validation of the 802.1X CA certificate input as in the Provision of the 802.1X user certificate input of the LAN 1 or the WLAN 1 interface.

when configuring EAP method with a configuration script, some of the 802.1X certificates (CA or/and user) not required anymore by the chosen EAP method will be deleted by the operating system from this pane. Consequently, when 802.1X CA certificates and/or 802.1X user certificates are required again with the chosen EAP method, it is advised to reinstall them with the configuration script as well.

• The autosigned certificates that must be trusted must be installed both in the Trusted certificates part and in the VPN certificates part.

4.1.8 Configuration > Date and time

In the Configuration tab, select the **Date and Time** menu to check the time configuration:

- timezone,
- system date of your device (day and time).

TAB10			Reboot the device	English	~
Configuration	~	⊙ Configuration > Date and time			
Connguration Administrator S LAN_1 C ULAN_1 ULAN_1 ULAN_1 C Output C Apps Servers C Certificates C Date and time Regionality C Arables Maintenance		Conguration > Date and time Time zone Europe / Paris UTC date and time ③ 3/10/2023 4:50 PM Local date and time 3/10/2023, 5:50 PM			
Information ~	~				

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

- The Date an time set by the user can be taken into account only if the NTP server is not activated, or if the NTP server is not accessible.
- Setting a new date and time involves to restart the device immediately. If you have several configuration settings to change, it is advisable to adjust the date and time at last.

• It is advised that your device is on time. If your device is connected to the Internet, it is advised to synchronize the date and time on a Web NTP server. For further information, refer to the chapter § Configuration > Servers.

If ever the device was not on time despite a right NTP configuration and right connection to the Web, check in the Android Settings application, in the menu Date & time, that the Automatic date & time parameter is activated. This parameter can be also set back by configuring the user preferences global.auto_time to 1 in the device configuration Web user interface.

4.1.9 Configuration > Regionality

In the Configuration tab, select the **Regionality** menu to choose the language in which information messages or error messages related to the device need be displayed on the screen.

TAB10 by Qeedji			Reboot the device	English	~
Configuration	^	Onfiguration > Regionality			
 Administrator LAN_1 WLAN_1 Output Apps Servers Certificates Date and time Regionality 		Language English (United States)			
Tasks					
\$() Variables					
Maintenance	~				
Information	~				

The supported languages are:

- English,
- Spanish,
- German,
- French,
- Italian,
- Russian.

4.1.10 Configuration > Tasks

In the Configuration tab, select the Tasks menu to:

- program a reboot manager task,
- program a power manager task for the appliance to reduce its energy consumption.

Device reboot manager task

To create a reboot manager task, click on the 🕲 button then click on the + button.

TAB10				Reboot the device	English		~
Configuration	^	🗰 Cor	nfiguration > Tasks		Validate	Can	icel
Administrator S LAN_1		٢	Reboot Manager				+
♥ WLAN_1 ↓ Output		Đ	Task 1		6	2	Û
Apps			From 3/13/2023 To 4/13/2023 Every days				
Servers			Recurrences		+		
Date and timeRegionality			☑ Sun ☑ Mon ☑ Tue ☑ Wed ☑ Thu ☑ Fri ☑ Sat At ◯ 06:00				
Tasks \$() Variables							
Maintenance	~						
Information	~						

It is therefore possible to program several reboot occurrences whose parameters are stored in an ICAL format in the secure.reboot_calendar user preference.

Example of value (ICAL format):

BEGIN:VCALENDAR VERSION:1.0 BEGIN:VEVENT SUMMARY:Reboot Task 1 DTSTART:20230303T060000 DTEND:20230303T060005 RRULE:FREQ=WEEKLY;BYDAY=MO,TU,WE,TH,FR,SA,SU;UNTIL=20230403T235959 END:VEVENT END:VCALENDAR

Device power manager tasks

To create a power manager task, click on the 3 button then click on the + button.

TAB10			Reboot the device English \vee
Configuration	^	iii Configuration > Tasks	Validate Cancel
Administrator S LAN_1		Over Manager	+
 WLAN_1 Output 		Task 1	ı ا
Apps Servers Certificates		From 3/13/2023 To 4/13/2023 Every days Energy consumption profile Very highly optimized	
O Date and time		Recurrences	+
 Regionality Tasks Variables 		Sun Mon Tue Wed Thu Fri Sat From 0 20:00 To 08:00 or All day long	Ĩ.
Maintenance Information	~ ~	Exceptions	+

The possible power manager task profiles are:

- Very highly optimized,
- Highly optimized.

It is possible to create several power manager tasks within the same day. The power manager tasks are stored into an ICAL format in the secure.power_manager_calendar user preference.

Value example (ICAL format):

BEGIN:VCALENDAR VERSION:1.0 BEGIN:VEVENT SUMMARY:Standby Task 1 X-POWER-MANAGER-LEVEL:MIN DTSTART:20230304T080000 DTEND:20230304T080000 RRULE:FREQ=WEEKLY;BYDAY=MO,TU,WE,TH,FR,SA,SU;UNTIL=20230403T235959 END:VEVENT END:VCALENDAR

• During the device standby, the configuration upgrade through TFTP (DHCP/code 66) is effective but the associated information message cannot be seen on the screen.

■ During the device standby, the device configuration update by USB storage device injection, the APK installation by USB storage device injection and the operation system upgrade by USB storage device injection keep supported. Setting the persist.sys.powermanager.level.low.externalstorage.copy.enable user preference to false prevents the USB storage device injection to work during the device standby.

w During the device standby, at any time, making a short press on the system button allows to wake up automatically the device and exit the kiosk mode.

• During the device standby with the VERY HIGHLY OPTIMIZED profile, by default, touching the screen does not allow to wake up automatically the device. To work around, set the persist.sys.power-manager.level.min.hid.pointer-event.enable user preference to true. After a tap on the screen, if there is no user activity during the persist.sys.power-manager.level.min.screen-off-timeout (by default, sixty seconds), the device returns to Device Sleep mode. For further information refer to the chapter § Power manager and Screen Saver modes.

■ It is not recommended to keep two different activated Apps running with their own Power Manager strategy else the Power Manager task of the end-user App could not behave as expected.

The persist.sys.power-manager.device-sleep.level.default allows to set the Power Manager profile that requested by the App: if its value is min (default value), the Very highly optimized value is applied for the power manager task requested by the App; if its value is Low, the Highly optimized value is applied for the power manager task requested by the App.

w In case, two power manager tasks with different profiles (i.e. Very highly optimized and Highly optimized) are concurrents, meaning one requested by the App and one requested by the OS, the power manager task requested by the OS is priority.

■ In case, two power manager tasks generated in this pane, with different profiles (i.e. Very highly optimized and Highly optimized) are concurrents, meaning one requested by the App and one requested by the OS, the Very highly optimized power manager task is priority.

w When the end time of the power manager task is lower or equal to its start time, the power manager task runs automatically till the day after.

• During the device standby, the Screen DIM and the Screen Saver contents cannot be seen on the screen. For further information refer to the chapter § Power manager and Screen Saver modes.

- During the device standby, the NFC tag badging and the 125KHz tag badging are deactivated.

Here is the power manager task profile scope when a power manager task is executed with the Very highly optimized profile:

Function	Associated user preferences	Description
Screen: off	<pre>system_properties.persist.sys.power-manager.level.min.display-output.power-mode = 0</pre>	
Touch screen interactivity: no	<pre>system_properties.persist.sys.power-manager.level.min.hid.pointer-event.enable = false</pre>	
Volume mute: yes	<pre>system_properties.persist.sys.power-manager.level.min.sound-output.mute = true</pre>	
Volume level: 0	$system_properties.persist.sys.power-manager.level.min.sound-output.volume = 0$	
Backlight level ¹ : 0	<pre>system_properties.persist.sys.power-manager.level.min.display-output.backlight = 0</pre>	

Here is the power manager task profile scope when a power manager task is executed with the Highly optimized profile:

Function	Associated user preferences					
Screen: on	<pre>system_properties.persist.sys.power-manager.level.low.display-output.power-mode = 1</pre>					
Touch screen interactivity: yes	system_properties.persist.sys.power-manager.level.low.hid.pointer-event.enable = true					
Volume mute: yes	<pre>system_properties.persist.sys.power-manager.level.low.sound-output.mute = false</pre>					
Volume level: 0	<pre>system_properties.persist.sys.power-manager.level.low.sound-output.volume = 50</pre>					
Backlight level ¹ : 0	<pre>system_properties.persist.sys.power-manager.level.low.display-output.backlight = 50</pre>					

¹ The backlight level from 0 to 100 allows to adjust the screen transparency. When the transparency is at its minimum, i.e value 0, the content can still be seen by transparency.

4.1.11 Configuration > Variables

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

TAB10		Reboot the d	device English	~
Configuration	^	\$() Configuration > Variables		
 Medministrator LAN_1 WLAN_1 Output Apps Servers Certificates 		Custom device variables: field1 field1 field2 field2 field3 field3 field4 field4		
 Date and time Regionality Tasks Variables 		field5		
Maintenance Information	~			

The variable names are:

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

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

4.1.12 Maintenance > Test card

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

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

To activate the Test Card App launching at device start-up, set the Test Card toggle button to *activated*. To not activate the Test Card App launching at device start-up, set the Test Card toggle button to *deactivated*.

• The test pattern content is not displayed by default at device start-up when it is coming straight from factory. For further information about the test pattern content, refer to the chapter § Test card.

TAB10			Reboot the device	English	~
Configuration	~	🎆 Maintenance 🚿 Test card			
Maintenance	^				
Test card		Show test card at startup			
Files					
Eirmware					
* Preferences					
Information	~				
					_

w When the Test card App is executed at device start-up, the other activated App starts to be executed only one minute after the Test card content has started to be displayed. When the Test card content is displayed, the user cannot access to AQS desktop by pressing on the system button.

• The displaying of the IP V6 address value starting with the prefix *fe80*:: is not supported in the Test Card content. For further information, contact your IT department so that your network is advertising the IP V6 address with another prefix (ex: *fc00*::).

4.1.13 Maintenance > Files

In the Maintenance tab, select the Files menu to see the directories and files hosted at the root directory of the WebDAV server.

\B10 Qeedji					Reboot the device	E	ngl	nglis	nglish	nglish	nglish	nglish	nglish	nglish
ration	~	街 Maintenance > Files	6											
laintenance	^	Name	Size	¥										
🗰 Test card				-										
Files		.apps	-											
Firmware		.configuration	-											
★ Preferences		🗀 .data	-											
Information	~	.software	-											

These are the available WebDAV directories:

- .apps : directory allowing to upload APK and install it on the TAB10b device,
- .configuration : directory allowing to upload a configuration script to auto-configure the device,
- .data : directory hosting the App content,
- .software : directory allowing to upload a .fqs firmware and upgrade the Aos operating system version of the TAB10b device.
- w When an App is uninstalled from the device, the data related to it are not removed automatically. For disk space saving reasons, after an App uninstallation, it is recommended to remove the entire subdirectory related to the uninstalled App in the .data WebDAV directory.

Operating system upgrade

The AQS firmware can be upgraded by pushing a new firmware file <code>aosp_qeedji-tab10-setup-9.YY.ZZ.fqs</code> in the <code>.software</code> directory of the device WebDAV directory (http://cdevice-ip-addr/.software).

The credentials values to access to the .software directory must be those of any connection profile except Application user one.

Configuration update

The configuration of the device can be updated also by pushing an suitable .js configuration script in the .configuration WebDAV directory (http://<device-ip-addr>/.conf) with the Web user interface. In this case, the file pattern must be either:

- 00000000000.js,
- configuration.js Or,
- <device_LAN1_MAC_address>.js (with ab-cd-ef-ab-cd-ef, the MAC address of the device).
 - The credentials values to access to the .configuration directory must be those of any connection profile except Application user one.

Download the configuration script example from the Qeedji Website it then:

- edit the 00000000000.js configuration script and uncomment/modify the appropriate lines according to your needs,
- rename the configuration script if required,
- once saved, drop it in the WebDAV directory like explained above,
- when suitable for your device, save it preciously for future use.

After a .js configuration script loading, the device is rebooting automatically once to take the new configuration into account.

4.1.14 Maintenance > Firmware

In the Maintenance tab, select the Firmware menu to view the version of the AQS operating system installed on your device.

Drop your .fqs firmware in the Drop file here or click to add one location or click on the button Drop file here or click to add one to pick up the appropriate firmware, then click on the send button to update the AQS (for AOSP Qeedji System) version of your device. Wait a few minutes, the time to install the new AQS operating system version. Go back to the device configuration Web user interface and check that the AQS operating system version of the device has changed.

4.1.15 Maintenance > Preferences

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

TAB10 by Qeedji		Reboot the device English	~
Configuration	~	X Maintenance > Preferences	
Maintenance	^		
Iest card		Filter	
Files		Name of the preference	
E Firmware		globaLadb_enabled	^
🗙 Preferences		global.add_users_when_locked	
Information	~	globaLairplane_mode_on	
		globaLairplane_mode_radios	
		globaLairplane_mode_toggleable_radios	
		globaLassisted_gps_enabled	
		globaLaudio_safe_volume_state	
		globaLauto_time	
		globaLauto_time_zone	
		global.bluetooth_disabled_profiles	
		global.bluetooth_on	
		global.boot_count	
		global.call_auto_retry	
		global.car_dock_sound	
		global.car_undock_sound	
		dishaledma call hroadcast sms	

The filter allows to display only the preferences whose name contains the string entered in the filter. All the preferences have optimal default values. Double click on a preference to change its value.

4.1.16 Information > Device

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

				Reboot the device	English	~
Configuration	~	🚔 Information >	Device			
Maintenance	~	Operating system	AQS - 9.10.17			
Information	^	Model	TAB10b			
Pevice		Device name	TAB10b			
DSB adapters		Hostname	TAB10b			
<u> </u> Network		MAC Id	00:1C:E6:02:5A:7B			
Screens		UUID	0a200001-0000-0000-0000-001ce6025a7b			
		PSN	01620-00001			
		Capture video out	put on Monday, December 18, 2023 at 1:03:13 PM 🛛 😂			
			Concertifie			
			Qecolt			
	_					

- Operating system: label and version of the embedded AQS operating system,
- Model: model of the Qeedji device,
- Device name : name of the device,
- Hostname : name of the device on the network,
- MAC Id : MAC address of the WLAN interface,
- UUID : Universal Unique IDentifier,
- PSN : Product Serial Number.

4.1.17 Information > USB adapters

In the Information tab, select the **USB adapters** menu to see the product name and manufacturer name of the USB adapter devices connected to the TAB10b device.

This is an example of content when the TAB10b device is supplied by a standard USB-C wall-plug and connected to a WIFI network.

TAB10 by Qeedji			Reboot the device English ~
Configuration	\sim	🛱 Information > USB adapters	
Maintenance	~	No usb adapter	
nformation	^		
🗳 Device			
🛱 USB adapt	ers		
<u>i</u> Network			
Screens			

This is an example of content when the TAB10b device is supplied by a NAPOE109ku Ethernet adapter which is connected to a POE switch.

TAB10			Reboot the device	English 🗸
Configuration	/ 🕞 Information	> USB adapters		
Maintenance	Product name	ΝΑΡΟΕΙΟ9Κυ		
Information	Manufacturer			
Pevice	Version	1.10.12		
USB adapters	PSN	01412-00008		
(i) Network				
Screens				

4.1.18 Information > Network

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

This is an example of pane content when the TAB10b device is supplied by a standard USB-C wall-plug and connected to the WIFI network.

		$\begin{tabular}{ c c c c } \hline {\sf Reboot the device} & {\sf English} & \lor \\ \hline \end{array}$
Configuration \vee	① Information > Network	
Maintenance \checkmark Information \land	NTP time server NTP Server	
Device Device USB adapters Network Screens	WLAN_1 Mac address 00:1C:E6:02:5A:7B Ip v4 addresses 192.168.1183/17 [Auto] Ip v6 addresses fe80::21c:e6ff:fe02:5a7b/64 Default gateway 192.168.0.1 [Auto] State connected SSID Innes_R&D_2.4Ghz DNS Servers 192.168.0.4, 192.168.0.1 [Auto]	

This is an example of pane content when the TAB10b device is supplied by a NAPOE109ku Ethernet adapter which is connected to a PoE switch, which is not connected to the network. The TAB10b device is connected to the WIFI network.

TAB10		Reboot the device	English 🗸
Configuration ~	Information > Netwo	ork	
Maintenance ~ Information ^	NTP time server NTP Server		
Device Device USB adapters Network Screens	LAN_1 Mac address 00:10 Ip v4 addresses Ip v6 addresses fe80:	::E6:02:56:94 :21c:e6ff:fe02:5694/64	
	Default gateway State conne DNS Servers	ected	
	Ip v4 addresses192.10Ip v6 addressesfe80:Default gateway192.10StateconnSSIDInnes	:21c:e6ff:fe02:5a7b/64	

This is an example of content when the TAB10b device is supplied by a NAPOE109ku Ethernet adapter which is connected to a PoE switch, which is connected to the network.

U by Qeedji			
Configuration ^	() Information >	letwork	
 Administrator LAN_1 WLAN_1 Output Apps Servers Certificates Date and time 	Ip v4 addresses Ip v6 addresses Default gateway	00:1C:E6:02:56:94 192.168.1.85/17 [Auto] fe80::21c:e6ff:fe02:5694/64 192.168.0.1 [Auto] connected	
 Regionality Tasks Variables 	WLAN_1	192.168.0.4, 192.168.0.1 [Auto] 00:1C:E6:02:5A:7B	
Maintenance \vee Information \vee	Ip v6 addresses Default gateway	not connected	

4.1.19 Information > Screens

In the Information tab, select the Screens menu to view information about the screen.

TAB10	Reboot	the device Engl	ish 🗸
Configuration \vee	Information > Screens		
Maintenance \checkmark Information $^$	Screen #1 Screen resolution 1280X800 (60Hz)		
🚇 Device	Rotation 0°		
📮 USB adapters			
(i) Network			
Screens			

Part V Technical information

5.1 Technical specifications

Model	Manufacturer
ТАВ10Ь	Innes

Processors	Model	Information
CPU	SoC NXP i.MX8	4 ARM Core Cortex A53, up to 1.8GHz per core Integrated 2D/3D GPU 1080p60 VP9 Profile 0, 2 (10-bit) decoder, HEVC/H.265 decoder, AVC/H.264 Baseline, Main, High decoder VP8 decoder 1080p60 AVC/H.264 encoder, VP8 encoder

Screen	Information	
Panel type	LCD TFT, capacitive	
Screen size	10.1"	
Resolution	16:10, 1280 x 800 px	
Back light	LED	
Touch screen	Multitouch 10 points max	
Contrast ratio	800 (typ.)	
Viewing angle	170° in all direction	
Brightness	Brightness: 500 nit (typ.)	
Display mode	Transmissive, normally black	

Power supply	Information
Through POGO type connector	4.75 V to 5.45 V (recommended values) 4.70 V and 5.50 V as absolute minimum and maximum values
Through USB-C connector4.75 V to 5.45 V1 (recommended values) 4.70 V to 5.50 V1 as minimum and maximum values	
Power consumption 6/8 W ² (typical value) 10 W ³ (maximum value) ² depends on the APK running and the used peripheral. ³ the maximum current is 2.1 A, so you should select an external power supply accordingly. Qeedji recommends the NAPOE109ku, NAPOE109kt or NAPOE109ft model accessories, as it is fully qualified with TAB10b device. For standard U supply adaptor, select a 5 V / 3 A capable device.	

¹ For TAB10b devices whose the PSN is 01352-xxxxx, the power supply specification through USB-C connector is 4.75 V to 5.35 V as recommended values, 4.70 V and 5.40 V as absolute minimum and maximum values.

USB Data	Information
Through USB-C connector	USB 2.0
Through POGO type connector	USB 2.0

	Network			Information
	802.11 a/b/g/n/ac (WIFI 5)			LBEH5HY1MW-230, MURATA chip 2,4 GHz and 5 GHz, built-in antenna
Storage Size For		For	rm factor	

Micro SD Card	16 GB ¹	microSD 15 x 11 x 1 mm (0.59 x 0.43 x 0.04")

¹ The device may support micro SD card whose memory size is upper than 16 GB. For further information, contact sales@qeedji.tech.

Volatile memory	Size				
DDR4	2 GB (~1 GB for AQS,	~1 GB for use	r data and APK)		
Sensor			Information		
NFC/MIFARE			13,56 MHz		
RFID			125 KHz		
Surround light	Info	rmation			
	3 со	lors: green, o	range, red		
Microphones			Information		
Number			2		
Inhibition			by DIP switch		
Bluetooth	Info	ormation			
Bluetooth 5.0	2,4 (GHz, built-in	antenna		
Audio output			Information		
Mono speaker			0.7W		
FAN					
Fanless					
Operating system In	ormation				
AQS for TAB10b	es = aosp (Android	Open Source	Project) Qeedji System		
Operating temperature		S	torage temperature		
0 °C to +40 °C (32 °F to 104 °F)		-:	20 °C to +60 °C (-4 °F to 140 °F)		
Operating humidity			Storage humidity		
< 80 %			< 85 %		
Weight	Dimensions (W x H	I x D)			
0,719 Kg (1,585 lb) 255 mm x 178,5 mm x 10,8 mr			10,0" x 7,0" x 0,393")		
Plastic enclosure flame rating					
White material: PVC UL 94 V-0, diffusing ma	terial: PC b-S1,d0				
Warranty					

5.2 Built-in RFID reader

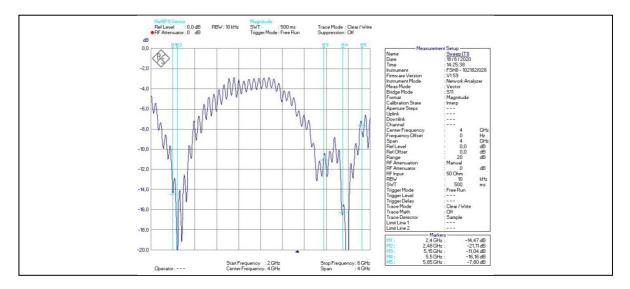
The device TAB10b has a badge reader allowing to recognize the badges supporting the RFID/NFC technology.

Туре	Modulation frequency	Brand (Manufacturer)	Applicable standard	Data rate (kbps)	Supported	Tested configuration
NFC type A	13.56 MHz	Mifare Classic 1K/4K (NXP)	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	Mifare Plus EV1/EV2 2K/4K (NXP)	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	Mifare UltraLight EV1/C (NXP)	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	Mifare DESFire D40/EV1/EV2 2K/4K/8K (NXP)	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	Mifare NTAG203	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	Jewel (Innovision)	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	Topaz 512 (BCM512)	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	Kovio (Kovio)	ISO 14443 typeA	106	Yes	
NFC type A	13.56 MHz	SLE66 (Infineon), SmartMx (NXP)	ISO 14443 typeA	106	Yes	
NFC type B	13.56 MHz	Cartes de transport (Innovatron), Calypso	ISO 14443 typeB	106	Yes	
NFC type B	13.56 MHz	Micropass, Vault (Inside), 16RF (ST), SLE66 (Infineon)	ISO 14443 typeB	106	Yes	
NFC type F	13.56 MHz	Felica (Sony) JIS 6319	ISO 18092	212, 424	Yes	
NFC type V	13.56 MHz	Icode (NXP), iclass (Hid), Tag-it (TI), LR (ST)	ISO 15693		Yes	
RFID LF ¹	125 KHz	Hitag (NXP), 125KHz Prox (HID)	ISO 18000-2, ISO11784/11785/14223		Yes	

¹ only UID of RFID is supported.

5.3 Antenna return loss

This is the return loss diagram for the WIFI/Bluetooth antenna:



5.4 Conformities

EUROPE

In conformity with the following European directives:

- LVD 2014/35/EU,
- EMC 2014/30/EU,
- RED 2014/53/EU.

Part VI Contacts

6.1 Contacts

For further information, please contact us:

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

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

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

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



7.1 Appendix: Qeedji PowerPoint publisher for Media Players

This appendix explains how to publish .pptx MS-Powerpoint presentation on TAB10b devices using your MS-Office PowerPoint, on which the Qeedji PowerPoint Publisher For Media Players PowerPoint Add In is installed.

The Qeedji PowerPoint Publisher For Media Players PowerPoint Add In can deal with several TAB10b devices with the same MS-PowerPoint presentation.

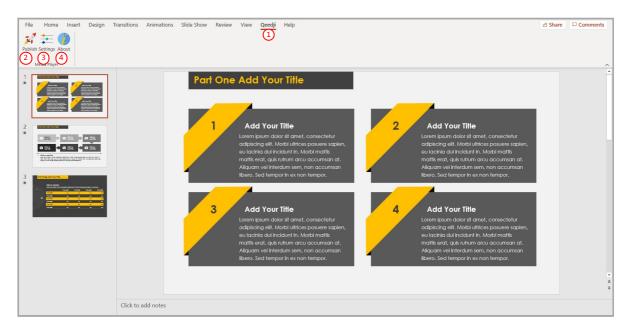
Qeedji PowerPoint Publisher For Media Players: installation

• Choosing Everyone may require to run the PowerPoint with the Administrator rights to be able to deactivate the Qeedji PowerPoint Publisher For Media Players PowerPoint Add In afterwards.

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

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

- Publish (2),
- Settings 3,
- About 4.



■ If the *Qeedji* menu (1) 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 Media Players PowerPoint Add In.

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

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

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

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

Qeedji PowerPoint Publisher For Media Players: uninstallation

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

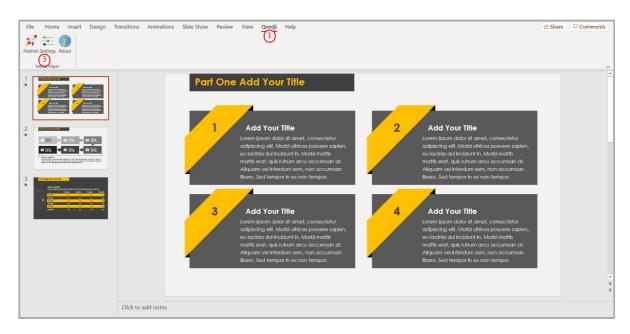
Qeedji PowerPoint Publisher For Media Players: upgrade/downgrade

Before installing a new Qeedji PowerPoint Publisher For Media Players version, it is advised to:

- close MS-PowerPoint then,
- uninstall the previous MS-PowerPoint add-in version.

• In case the version in the About pane of the Qeedji PowerPoint Publisher For Media Players is not corresponding the Qeedji PowerPoint Publisher For Media Players version just installed, disconnect from Office 365 then sign in again.

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



To register one or several TAB10b devices, open you MS-Office Powerpoint presentation then:

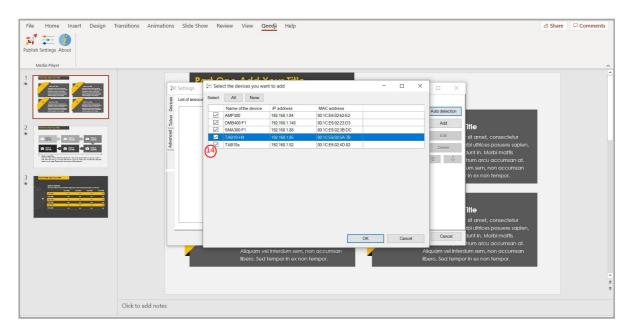
- click on the Qeedji 1 menu,
- on the Qeedji ribbon, click on the Settings (3) item then select the Devices tab.

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

On the Devices (1) tab, click on the Auto detection (2) button to detect the TAB10b devices available on your local network.

File Home Insert Design	Transitions Animations Slide Show Review View <mark>Qeedji</mark> Help	ය Share	
Publish Settings About Media Player			~
A CONTRACTOR OF	End Ope Add Your Title		-
	Edit Itel Date Itel Date Itel Itel Itel		
	Tite sit amel, consectetur ob utifices posuere sopien, OK Cancel		
	Aliquam vel interdum sem, non accumsan Aliquam vel interdum sem, non accumsan iibero. Sed tempor in ex non tempor. iibero. Sed tempor in ex non tempor.		- -
	Click to add notes		

Select 🗐 the appropriate TAB10b devices to create a list of appropriate TAB10b devices as possible applicant for the MS-Powerpoint presentation.



Select then the only TAB10b devices on which you want to publish, by double clicking on them.

• The TAB10b devices sorting order in the list is decisive because it is taken into account during the publication. The slides of the first section, or the first ten slides, are always affected to the TAB10b device located at the top of the list. Then the publication is continuing with the next TAB10b device located immediately below, and so on.

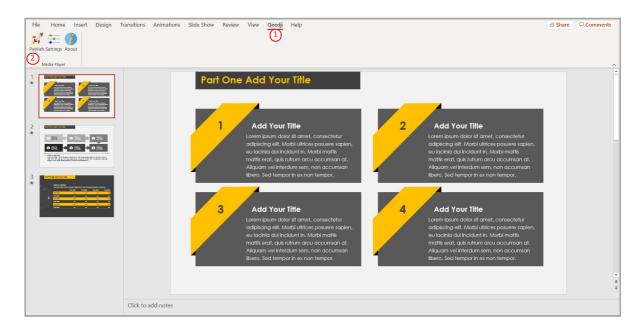
Select a TAB10b device and use the up 🚯 arrow or the down 印 arrow to sort them in the right order to match the MS-PowerPoint sections.

File Home Insert Design Transitions Anim	nations Slide Show Review View <mark>Qeedji</mark> Help	යි Share	□ Comments
Publish Settings About Media Player			~
Image: State of the state o	Perchance Add Your Title Is of account devices Is of account devices		
Click to add no	tes		

Qeedji PowerPoint Publisher For Media Players: publish

To publish a MS-Powerpoint content on your tablet, open your MS-Powerpoint presentation in MS-PowerPoint software. Then:

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



Before publishing with the Publish item, it is advised to check in the Settings item, that the registered TAB10b devices are consistent and sorted in the right order.

The Publishing status report is showing whether the publishing on each TAB10b devices has succeeded or not:

- Publishing succeeded : the publication has succeeded
- Publishing failure (Error: 503): the publishing has failed. In this case, check the network connection between your computer and the TAB10b device.

Publishing status report example:

- 1/5 Publishing on device: AMP300 (192.168.1.84)
 Publishing succeeded
- 2/5 Publishing on device: DMB400-F1 (192.168.1.140)
 Publishing succeeded
- 3/5 Publishing on device: SMA300-F1 (192.168.1.88) Publishing succeeded
- 4/5 Publishing on device: TAB10-H9 (192.168.1.85)
 Publishing succeeded
- 5/5 Publishing on device: TAB10s (192.168.1.52) Publishing succeeded
- 5/5 Publishing on device: TAB10b (192.168.1.53) Publishing succeeded

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

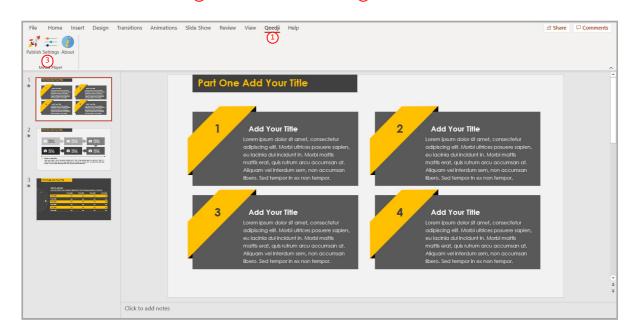
The *Publishing status report* is showing also whether the MS-PowerPoint medias can be rendered with the right fonts. In case some fonts can not be found on the Windows OS, a message Warning - Unable to find the following fonts is displayed followed by the missing fonts names. To solve the rendering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

The PowerPoint presentation slideshow is now displayed on your tablet.

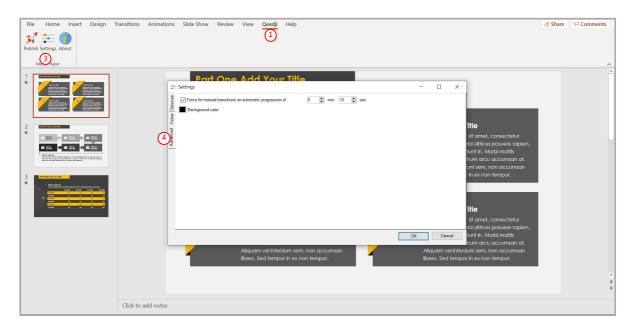
Qeedji PowerPoint Publisher For Media Players: define a default duration per page

To define a default duration per page to your MS-PowerPoint presentation, open you MS-Office Powerpoint presentation then:

- click on the Qeedji (1) menu,
- On the Qeedji ribbon, click on the Settings (3) item then select the Advanced (4) tab.



It is possible then to force for manual transitions a automatic progression of <m> min <n> sec for slides having no duration per slide defined.

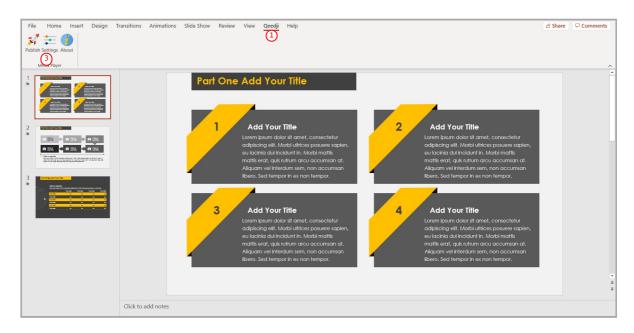


The Background color is used here only when the slide aspect ratio (Slide Size in MS-PowerPoint) is not 16:9.

Qeedji PowerPoint Publisher For Media Players: add a scrolling text in a bottom banner

To activate a scrolling text in a bottom banner to your MS-PowerPoint presentation, open you MS-Office Powerpoint presentation then:

- click on the Qeedji (1) menu,
- On the Qeedji ribbon, click on the Settings (3) item.



Then select the Ticker (5) tab.

Select the Scrolling text in the bottom banner (6) option to activate the scrolling of a text at the bottom of the presentation.

These scrolling text properties can be modified:

- Background color (7),
- Text color (8),
- Text font 9,
- Scroll speed 10.
- ☞ The banner height is 9.26% of the PowerPoint slide height.

• When the scrolling text overlay is supported by the TAB10b device, the max. number of character per line is depending on the display resolution of the TAB10b device and the chosen font. Outside this limit, the scrolling text cannot be displayed.

File Home Insert Design T	Transitions Animations Slide Show Review View Qeedji Help	🖻 Share	Comment	~
CONTRACTOR OF THE OFFICE	Part One Add Your Title Solutions and Solution to the lottom barner Solution to the lottom barner			-
	The at a star and star and a star and a star and a star an			
Other Other <th< td=""><td>Scott speed</td><td></td><td></td><td></td></th<>	Scott speed			
	Aliquam vel interdum sem, non accumsan Ilbero. Sed tempor in ex non tempor. Ilbero. Sed tempor in ex non tempor.			* *
	Click to add notes			

Qeedji PowerPoint Publisher For Media Players: information on fonts

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

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

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

Qeedji PowerPoint Publisher For Media Players: miscellaneous

The scheme https:// is not supported in this version.

When the App Qeedji PowerPoint Publisher for Media Player is not supported by a device (older OS, Smart monitor), the message below is displayed

Information The App "Qeedji Powerpoint Publisher for Media player" is not supported on this device The protected view may prevent to publish properly by returning this error: Publishing failure (Error: Unable to save a copy of the current document) (1). To work around, click on the Enable editing (2) button before publishing.

File	Home	Insert	Design	Transitions	Animations	Slide Show	Review	View	Qeedji	Help		6	A Share 🖓 Comments
12	OTECTED V	IEW Be ca	ireful—files f	rom the Interne	t can contain viru	uses. Unless you n	eed to edit,	it's safer to	o stay in Pro	otected Viev	Enable Editing	G	×

Qeedji PowerPoint Publisher For Media Players: aspect ratio

For devices, the recommended aspect ratio for MS-PowerPoint slides is 16/10.

7.2 Appendix: Qualified third party references

Commercial reference	Туре	Nb of USB-A connectors	Nb of USB- C (PD ¹ input) connectors	Nb of USB-C (PD ¹ output DRD ²) connectors	Nb of other USB-C (DRD ² only) connectors	Nb of RJ45 connectors (Ethernet to USB bridge)
QACQOC H01C-Gray	Hub USB	3	1	1	0	0
TRIPP-LITE U460-T04-2A2C-1	Hub USB	2	1	1	1	0
TRIPP-LITE U460-003-3AG-C	Hub USB + RJ45	3	1	1	0	1
Mevo Ethernet Power Adapter MV3-04A-BL ³	PoE to USB-C adapter	0	1	1	0	1

¹ PD for Power Delivery.

² DRD for Dual-Role-Data.

³ Not compatible with TAB10b devices whose the PSN is 01352-xxxxx .

In case you wish to buy other references by your own, they need to be Power delivery compliant, 5 V / 3 A.

7.3 Appendix: ISO image burning with BalenaEtcher

BalenaEtcher filename	Version	OS Windows	Size	Download link
balenaEtcher-Portable-1.5.102.exe	1.5.102	x86, x64	115 MB	BalenaEtcher Website

After having installed BalenaEtcher Software, execute it with administrator rights:

Click on the Select image button and select the file aosp_qeedji-tab10-setup-xx.yy.zz.iso.



Insert the device micro SD card in the SD card slot of your computer.

☞ If required, use a SD card adapter.

• After inserting the SD card in the computer, if MS-Windows 10 is displaying 14 times a format popup inviting to format the 14 partitions of the TAB10b SD card, click on the *Cancel* button of the format popups.

Press on the select target button and select carefully the storage media letter corresponding to your SD card.



Press on the Flash! button and wait that the micro SD card burning has completed.



7.4 Appendix: TFTP and DHCP server configuration

To use TFTP configuration by script, you need a TFTP ¹ server with a DHCP server associated to it (code 66 option).

¹ Trivial File Transfer Protocol

The network interfaces of the TAB10b devices must be configured to obtain their IP address with the DHCP server.

The TFTP configuration by script downloading operation (specific or general) is done with the DHCP server (during the device booting). The Qeedji device configures first its network parameters obtained by DHCP server, and then launches TFTP download.

A the installation phase is launched only when the script has never been downloaded before or if its content has been modified since the last download (md5 check).

DHCP server configuration

The DHCP must be configured to be associated to TFTP server. For that, you need to use code 66 option (TFTP Server), using the IPv4 address value of the TFTP server.

For example, for a Microsoft DHCP server, you need to define the option Boot Server Host Name and give the IPv4 address of the TFTP server. It can be in Extended option and/or Server Options.

The service must be restarted before the new parameters are fuly reflected.

9 DHCP				-	\Box \times
File Action View Help					
A A					
2 DHCP	Option Name	Vendor	Value	Actions	
 techdarchive.techdirect.local B IPv4 	060 PXEClient	Standard	PXEClient	Server Options	-
 	066 Boot Server Host Name	Standard Standard	C:\Remot	More Actions	•

TFTP server configuration

The configuration is depending on the software client used. In all cases, you need to:

- get the directory URL that can be seen by TFTP clients,
- choose the TFTP security None,
- keep the default port (69).

Here is an example of the tftpd32 software with MS-Windows.

🏘 Tftpd32: Settings			X
Base Directory			
D:\usr\tftp			Browse
Global Settings TFTP Server [] TFTP Client SNTP server Syslog Server DHCP Options	DHCP Server	Tftpd	erver ard msg to pipe 332Syslog syslog messages
Ping address before a	assignation 🔽	Persistant	leases
Bind DHCP to this ad	ldress	192.168.1	.15 💌
TFTP Security None Standard High Read Only	TFTP configu Timeout (sec Max Retrans Tftp port local ports po	:onds) mit	3 6 69
Advanced TFTP Options			
Option negotiation FXE Compatibility		Hide Wind Create "di	dow at startupi ir.txt'' files
Show Progress bar		Create md	
Translate Unix file na			ong transfer
Bind TFTP to this ad Allow '\'As virtual row		192.168.1	.15 🗾
Use anticipation win		Bytes	
	,		
OK Defa	ault	<u>H</u> elp	Cancel

In this example, the server address is 192.168.1.15 and the exported directory is D:/usr/tftp.

Copy the Javascript configuration script in the exported directory of the TFTP server.

■ It is recommended to have one .js configuration script per device by following the pattern <MAC> .js (e.g. 00021Cfe1215.js).

7.5 Appendix: Timezone

Area	<i>Country/Town</i> pair values supported for the setTimezone function of the configuration script (1 of 2)
Pacific	Pacific/Wallis, Pacific/Wake, Pacific/Tongatapu, Pacific/Tarawa, Pacific/Tahiti, Pacific/Saipan, Pacific/Rarotonga, Pacific/Port_Moresby, Pacific/Pohnpei, Pacific/Pitcairn, Pacific/Palau, Pacific/Pago_Pago, Pacific/Noumea, Pacific/Norfolk, Pacific/Niue, Pacific/Nauru, Pacific/Midway, Pacific/Marquesas, Pacific/Majuro, Pacific/Kwajalein, Pacific/Kosrae, Pacific/Kiritimati, Pacific/Honolulu, Pacific/Guam, Pacific/Guadalcanal, Pacific/Gambier, Pacific/Galapagos, Pacific/Funafuti, Pacific/Fiji, Pacific/Fakaofo, Pacific/Enderbury, Pacific/Efate, Pacific/Easter, Pacific/Chuuk, Pacific/Chatham, Pacific/Bougainville, Pacific/Auckland, Pacific/Apia,
Indian	Indian/Reunion, Indian/Mayotte, Indian/Mauritius, Indian/Maldives, Indian/Mahe, Indian/Kerguelen, Indian/Comoro, Indian/Cocos, Indian/Christmas, Indian/Chagos, Indian/Antananarivo,
Europe	Europe/Zurich, Europe/Zaporozhye, Europe/Zagreb, Europe/Warsaw, Europe/Volgograd, Europe/Vilnius, Europe/Vienna, Europe/Vatican, Europe/Vaduz, Europe/Uzhgorod, Europe/Ulyanovsk, Europe/Tirane, Europe/Tallinn, Europe/Stockholm, Europe/Sofia, Europe/Skopje, Europe/Simferopol, Europe/Saratov, Europe/Sarajevo, Europe/San_Marino, Europe/Samara, Europe/Rome, Europe/Riga, Europe/Prague, Europe/Podgorica, Europe/Paris, Europe/Oslo, Europe/Moscow, Europe/Monaco, Europe/Minsk, Europe/Mariehamn, Europe/Malta, Europe/Madrid, Europe/Luxembourg, Europe/London, Europe/Ljubljana, Europe/Lisbon, Europe/Kirov, Europe/Kiev, Europe/Kaliningrad, Europe/Jersey, Europe/Istanbul, Europe/Isle_of_Man, Europe/Helsinki, Europe/Guernsey, Europe/Gibraltar, Europe/Dublin, Europe/Copenhagen, Europe/Chisinau, Europe/Busingen, Europe/Budapest, Europe/Bucharest, Europe/Brussels, Europe/Bratislava, Europe/Berlin, Europe/Belgrade, Europe/Athens, Europe/Astrakhan, Europe/Andorra, Europe/Amsterdam,
Australia	Australia/Sydney, Australia/Perth, Australia/Melbourne, Australia/Lord_Howe, Australia/Lindeman, Australia/Hobart, Australia/Eucla, Australia/Darwin, Australia/Currie, Australia/Broken_Hill, Australia/Brisbane, Australia/Adelaide,
Atlantic	Atlantic/Stanley, Atlantic/St_Helena, Atlantic/South_Georgia, Atlantic/Reykjavik, Atlantic/Madeira, Atlantic/Faroe, Atlantic/Cape_Verde, Atlantic/Canary, Atlantic/Bermuda, Atlantic/Azores,
Asia	Asia/Yerevan, Asia/Yekaterinburg, Asia/Yangon, Asia/Yakutsk, Asia/Vladivostok, Asia/Vientiane, Asia/Ust-Nera, Asia/Urumqi, Asia/Ulaanbaatar, Asia/Tomsk, Asia/Tokyo, Asia/Thimphu, Asia/Tehran, Asia/Tbilisi, Asia/Tashkent, Asia/Taipei, Asia/Srednekolymsk, Asia/Singapore, Asia/Shanghai, Asia/Seoul, Asia/Samarkand, Asia/Sakhalin, Asia/Riyadh, Asia/Qyzylorda, Asia/Qostanay, Asia/Qatar, Asia/Pyongyang, Asia/Pontianak, Asia/Phnom_Penh, Asia/Oral, Asia/Omsk, Asia/Novosibirsk, Asia/Novokuznetsk, Asia/Nicosia, Asia/Muscat, Asia/Manila, Asia/Makassar, Asia/Magadan, Asia/Macau, Asia/Kuwait, Asia/Kuching, Asia/Kuala_Lumpur, Asia/Krasnoyarsk, Asia/Kolkata, Asia/Khandyga, Asia/Kathmandu, Asia/Karachi, Asia/Kamchatka, Asia/Kabul, Asia/Jerusalem, Asia/Jayapura, Asia/Jakarta, Asia/Irkutsk, Asia/Hovd, Asia/Hong_Kong, Asia/Ho_Chi_Minh, Asia/Hebron, Asia/Gaza, Asia/Famagusta, Asia/Dushanbe, Asia/Dubai, Asia/Dili, Asia/Dhaka, Asia/Damascus, Asia/Colombo, Asia/Choibalsan, Asia/Chita, Asia/Brunei, Asia/Bishkek, Asia/Beirut, Asia/Barnaul, Asia/Bangkok, Asia/Baku, Asia/Bahrain, Asia/Baghdad, Asia/Atyrau, Asia/Ashgabat, Asia/Aqtobe, Asia/Aqtau, Asia/Anadyr, Asia/Amman, Asia/Almaty, Asia/Aden,
Arctic	Arctic/Longyearbyen,
Antarctica	Antarctica/Vostok, Antarctica/Troll, Antarctica/Syowa, Antarctica/Rothera, Antarctica/Palmer, Antarctica/McMurdo, Antarctica/Mawson, Antarctica/Macquarie, Antarctica/DumontDUrville, Antarctica/Davis, Antarctica/Casey,
America	America/Yellowknife, America/Yakutat, America/Winnipeg, America/Whitehorse, America/Vancouver, America/Tortola, America/Toronto, America/Tijuana, America/Thunder_Bay, America/Thule, America/Tegucigalpa, America/Swift_Current, America/St. Vincent, America/St_Thomas, America/St_Lucia, America/St. Kitts, America/St_Johns, America/St_Barthelemy, America/Sitka, America/Scoresbysund, America/Sao_Paulo, America/Ratica_Domingo, America/Santiago, America/Santarem, America/Rio_Branco, America/Resolute, America/Pagina, America/Recife, America/Ratin, Inlet, America/Rainy, River, America/Punta_Arenas, America/Puerto_Rico, America/Porto_Velho, America/Port-au-Prince, America/Port_of_Spain, America/Ponenix, America/Paramaribo, America/Pangnirtung, America/Panama, America/Diinaga, America/Nuuk, America/Nome, America/New_Salem, America/Pangnirtung, America/Naman, America/Diinaga, America/Nouk, America/Nome, America/Noncton, America/Noth_Dakota/Center, America/Montserrat, America/Montevideo, America/Monterrey, America/Moncton, America/Matamoros, America/Matinique, America/Metlakatla, America/Manaus, America/Managua, America/Macatlan, America/Matamoros, America/Matinique, America/Lima, America/Lana, America/Managua, America/Indiana/Winamac, America/Los_Angeles, America/Lima, America/Lanaa, America/Indina/Indiana/Potersburg, America/Havana, America/Juneau, America/Indiana/Kexay, America/Indiana/Indiana/Potersburg, America/Havana, America/Halifax, America/Indiana/Kox, America/Indiana/IndianapOis, America/Lesalvador, America/Grand_Turk, America/Goose_Bay, America/Guayaquil, America/Coutemala, America/Guadeloupe, America/Esalvador, America/Grand_Turk, America/Cambridge_Bay, America/Coutao, America/Indiana/IndianapOis, America/Lesalvador, America/Garand_Turk, America/Guaman, America/Coutaoa, America/Iotita, America/Guadeloupe, America/Esalvador, America/Baina, America/Cambridge_Bay, America/Bominica, America/Iotita, America/Joeson_Treek, America/Dawson, America/Cambridge_Bay, America/Bominica, America/Cuiaba, America/Guaeloupe, Americ

Area	<i>Country/Town</i> pair values supported for the setTimezone function of the configuration script (2 of 2)
Africa	Africa/Windhoek, Africa/Tunis, Africa/Tripoli, Africa/Sao_Tome, Africa/Porto-Novo, Africa/Ouagadougou, Africa/Nouakchott, Africa/Niamey, Africa/Ndjamena, Africa/Nairobi, Africa/Monrovia, Africa/Mogadishu, Africa/Mbabane, Africa/Maseru, Africa/Maputo, Africa/Malabo, Africa/Lusaka, Africa/Lubumbashi, Africa/Luanda, Africa/Lome, Africa/Libreville, Africa/Lagos, Africa/Kinshasa, Africa/Kigali, Africa/Khartoum, Africa/Kampala, Africa/Juba, Africa/Johannesburg, Africa/Harare, Africa/Gaborone, Africa/Freetown, Africa/El_Aaiun, Africa/Douala, Africa/Djibouti, Africa/Dar_es_Salaam, Africa/Dakar, Africa/Conakry, Africa/Ceuta, Africa/Casablanca, Africa/Cairo, Africa/Bujumbura, Africa/Brazzaville, Africa/Blantyre, Africa/Bissau, Africa/Banjul, Africa/Bangui, Africa/Bamako, Africa/Asmara, Africa/Algiers, Africa/Addis_Ababa, Africa/Accra, Africa/Abidjan,

7.6 Appendix: Device network disk mounting in MS-Windows explorer

△ Do follow carefully the procedure below to mount properly the TAB10b device as network disk in MS-Windows explorer. Indeed, after a first mounting failure with wrong login credentials, it could be difficult to mount the device afterwards because MS-Windows keeps the wrong login credentials in cache memory for few tenths of minutes preventing to mount the device for a while.

Prerequisite:

• the TAB10b is properly connected to your network with a correct network configuration (wLAN or LAN interface).

Open the MS-Windows explorer, right click on the This computer directory then select Map network drive.... In the dialog:

- choose an available drive letter,
- enter the URL http://<device-IP-addr>/,
- unselect the option Reconnect at sign in,
- select the option Connect using different credentials,
- press on the Finish button

For example, if the IP address of the TAB10b device is 192.168.1.105:

			\times
\leftarrow	🔏 Map Ne	etwork Drive	
		twork folder would you like to map?	
	Drive: Folder:	F: ~ http://192.168.1.105/ ~ Example: \\server\share	
		Finish Canc	el

Enter the login credentials to connect to the TAB10b WebDAV server.

 \triangle It is advised to double check the login credentials.

In case disk mapping success, the network drive should be mounted automatically on \\<device-IP-addr>\DavWWWRoot . For example:

😴 🕑 📜 🕫 🛛 Manage DavWW	/WRoot (\\192.168.1.105) (F:)					
File Home Share View Drive Tools						
\leftarrow \rightarrow \checkmark \uparrow \checkmark This PC \rightarrow DavWWWRoot (\\192.168.1	.105) (F:)				· · · · · · · · · · · · · · · · · · ·	U v
See DavWWWRoot (\\192.168.1.105) (F:)	Name	Date modified	Туре	Size		
	apps .	01/01/2020 01:00	File folder			
	.configuration	01/01/2020 01:00	File folder			
	📕 .data	01/01/2020 01:00	File folder			
	.software	01/01/2020 01:00	File folder			
4 items						

7.7 Appendix: USB mass storage

Some rare USB sticks could be not detected by the device because the USB partitionning is not supported by Aqs. In this case, a Unsupported General USB drive notification is raised.

The notifications can be watched in native mode, but not in kiosk mode.

7.8 Appendix: File transfer from a computer

Like any Android device, it is possible to access to the file system of the TAB10b device from a computer. That procedure can be used for example to push a configuration script or a firmware from a computer when no network is available on the TAB10b device.

The directories corresponding to the WebDAV directories are:

- /.configuration
- /.apps
- /.data
- /.software

Ensure that you computer is able to supply sufficient power through the USB-C connector to start the TAB10b device. Else use a NAPOE109kt or NAPOE109ft device to start the TAB10b device.

- 1. connect an USB-C cable between your computer and the TAB10b device,
- 2. if required, quit the Kiosk mode by pressing on the system button to access to the Android Settings App,
- 3. in the upper notification banner, press in the white area on the Android system, charging the device via USB button,
- 4. a Tape for more options button appears. Click on it to open an USB preferences pane,
- 5. in the use USB for section, select the File transfer radio button instead of the No data transfer radio button.

Check that the TAB10b device file system is mounted properly. This directories should be available:

- <This PC>\TAB10\Internal shared storage\Android\data\tech.qeedji.system\files\.configuration,
- <This PC>\TAB10\Internal shared storage\Android\data\tech.qeedji.system\files\.apps,
- <This PC>\TAB10\Internal shared storage\Android\data\tech.qeedji.system\files\.data,

To update the network configuration of your TAB10b device, push a suitable configuration script in this directory:

• <This PC>\TAB10\Internal shared storage\Android\data\tech.qeedji.system\files\.configuration.

To upgrade the AQS Operating system, push a suitable firmware in this directory:

• <This PC>\TAB10\Internal shared storage\Android\data\tech.qeedji.system\files\.software.

To install an APK, push a suitable .apk file in this directory:

• <This PC>\TAB10\Internal shared storage\Android\data\tech.qeedji.system\files\.apps directory.

7.9 Appendix: Factory reset

The factory reset consists in recovering the data like it was at the factory.

From the AQS desktop¹,

- swipe your finger to make appear the AQS Desktop ,
- click on the Settings application,
- scroll and click on the System (Languages, time, backup) menu,
- On the Advanced drop down list, select the Reset options menu,
- click on the Erase all data (factory reset) button,
- click on the RESET TABLET button.

¹ The access to the AQS desktop requires that the TAB10b device is in *native* mode which needs to be activated thanks to a configuration script having the *setDeviceModeNative()* function uncommented. For further information, refer to the chapter § Device configuration by script.

7.10 Appendix: Remove an App with Android Settings App

In case you have published on the AQS device, several Apps programmed in autostart mode, they are all starting after the device boot-up has ended.

To remove one of the Apps (from example, the <APKname1> App),

- if required, exit from the Kiosk mode by making a short press on the system button of the device,
- in the Android settings pane, press on the Apps and notifications menu,
- click on the button See all <n> apps ,
- among the Apps installed, remove the App by making a long press on it then press on the UNINSTALL button.
- For each Apps, you may have to do twice this action, once for the <APKname1> APK, another one for the <APKname1 UI> APK.

Exit the Android settings to return to use your App.

🖙 In case you have deleted all your Apps, push again the App on your device.

7.11 Appendix: 802.1X security configuration with Android Settings App

Using 802.1x security requires to have:

- specific LAN switch or WiFi modem supporting 802.1X security,
- a RADIUS server properly configured.

Several 802.1X modes are supported. Depending on the chosen 802.1X security mode, you may have to install on the tablet:

- the CA certificate of your RADIUS server,
- one trusted client certificate per TAB10b device generated with the CA certificate of your RADIUS server.

A When using a RADIUS certificate, it is recommended that the system date of the TAB10b device is properly set, else you may not be able to access to the secured network.

802.1X security on WLAN interface

Activate the WiFi connection and connect to the WLAN access point supporting 802.1X security.

When filling settings for WiFi connection, fill the 802.1X security as well:

EAP method,

.

- PEAP,
- TLS,
- TTLS
- PWD.
- Phase 2 authentication
- PAP¹,
- MSCHAP¹
- MSCHAPV2¹
- GTC¹,
- None¹: the AOSP uses automatical the right Phase 2 authentication value given by the RADIUS server
- CA certificate : select the RADIUS CA certificate
- Identity : client identity registered in the RADIUS server for this TAB10b device for the WLAN interface
- Anonymous identity : identity used for the first identification phase. If the Anonymous Identity value is let empty, the Anonymous Identity value worths the Identity value set above.
- Password : client password registered in the RADIUS server for this TAB10b device for the WLAN interface
- Advanced options:
 - Metered,
 - Proxy,
 - IP settings:
 - DHCP,
 - Static:
 IP address
 - IP addition
 Gateway
 - Network prefix
 - DNS 1
 - DNS 2

➡ The virtual keyboard appears each time entering in the WiFi configuration window. To hide the virtual keyboard, press on the back menu of AOSP.

¹ The values available here are depending on the chosen EAP method.

A The 802.1X security configuration has to be done either entirely by the Settings application (for WLAN interface), through the device configuration Web user interface or with a configuration script. For further information, refer to configuration script template V1.12.13 (or above).

802.1X security on LAN interface

The LAN configuration can only be done with a configuration script. For further information, refer to configuration script template V1.12.13 (or above).

7.12 Appendix: Certificates installation with Android Settings App

The AOSP Settings App allows to view the certificates. Go in the Security & location menu, then scroll to Encryption and Credentials item and click on it. Several items are displayed:

- Trusted credentials,
- User credentials,
- Install from SD card.

An unsigned certificate, appearing only in the User credentials screen, cannot be used by APK to access to some files hosted on some Web server URL, available only with the HTTPS scheme and requiring certificates.

w When installed with the AOSP settings App, the unsigned certificates cannot appear in the Trusted certificate screen. When they are installed with the configuration script 1.10.15 (or above), the unsigned certificates are made trusted by AQS (9.10.10 beta9 or above). Then they appear automatically in the Trusted certificate screen.

Trusted credentials

After having been installed by the user, the CA certificates are viewable both:

- in the User credentials screen, with a private certificate label entered by the user,
- in the USER tab of the Trusted certificate screen.

• The system tab of the Trusted certificate screen is listing the trusted certificates already installed on the tablet when coming straight from factory.

User credentials

The unsigned certificates installed by the user are only viewable in the User credentials screen.

Install from SD card

To install a certificate from your USB mass storage:

- copy the certificate file on your USB mass storage,
- insert the USB mass storage in the USB hub connected to the TAB10b device,
- select the Install from SD card item,
- press on the *bars* \equiv button at the top left of the screen and select the mounted USB disk:
- enter a label name for the certificate,
 - select a credential and select a group value among the choices below:
 - VPN and apps: group usually hosting user CA certificate to access for example to some file hosted on remote server available in https,
 Wi-Fi: group usually hosting user CA certificate for 802.1X for LAN and WLAN interface.
- It is recommended to install the unsigned certificates with the configuration script.

7.13 Appendix: Power manager and Screen Saver modes

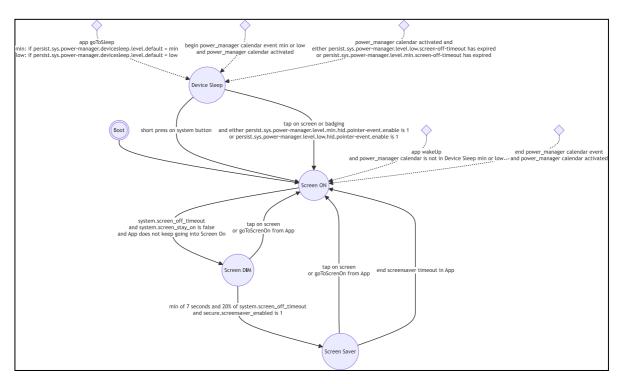
For the TAB10b device, the screen saver mode and the screen DIM mode are supported. By default, the screen DIM mode and screen saver mode are not activated.

User preference name	Default value	R/W access	Possible values	Description
system.screen_off_timeout	60000	R/W	<0n>	Duration in ms before going to Screen DIM mode.
system.screen_stay_on	1	R/W	0 or 1	1 means that the device can not reach Screen DIM mode (default value). 0 means that the device can reach Screen DIM mode. When secure.screensaver_enabled is 1, the device reachs Screen ON mode after few seconds in Screen DIM mode.
secure.screensaver_enabled	1	R/W	0 or 1	<i>0</i> : Screen DIM mode only, <i>1</i> : Screen DIM mode then the screensaver is reached when there is no user interactivity.
screen_brightness_dim	1	R/W	0 to 100	When the screen_brightness_dim is 0, the backlight is very dark and the transparency is weak. When the screen_brightness_dim is 100, the backlight level is maximum. The transparency is full.

The screen DIM mode consists in the decreasing of the screen brightness by changing the backlight level. The duration of this state is the minimum value between seven seconds and 20% of the system.screen_off_timeout user preferences value. Once this screen DIM mode is reached, taping once on the screen allows to exit this mode and return to Screen ON mode (nominal screen mode).

The Screen Saver mode consists in displaying the Screen saver App, named colors in the Display menu of the Android settings for the default Screen saver App. Once this Screen Saver mode is reached, taping once on the screen allows to exit this mode and return to Screen ON mode (nominal screen mode); the device can also return to the Screen ON mode when the screen saver timeout implemented by the App has expired.

This version supports the execution of a custom Screen saver App instead the default Screen saver App.



7.14 Appendix: Identifier and password self-filling and self-confirmation in a Web page form

List of supported input properties to auto-fill properly the <i>identifier</i> field	
email type input	
user i name* input	
email autocomplete input	
user i id* input	
login i id* input	
email i id* input	
List of supported input properties to auto-fill properly the <i>password</i> field	
password input type	
List of supported validate button properties to self-confirm the credential values and access to the Web page	e content
submit type input	
submit type button	

submit type button

button type input

sign id* input

submit id* input

7.15 Appendix: URI for Media Folder Injector

The Media Folder Injector APK can support .uri medias playback. The URI media must consist in:

- a <myName>.uri file,
- a <myName>.uri.xmp file, to configure the URI media duration.
- 🖝 If only the .uri file is available, the .uri media is played only for 10 seconds.

A Web page URI example can be provided by Qeedji.

- 1. In both files, replace the https://www.qeedji.tech/en/ URL by your own Web page URL,
- 2. In both files, replace the im:userDuration value (e.g. 00:01:00,000) according to your need to define the intrinsic URI duration,
- 3. Rename the both file with a name consistent with your URL and by respecting the suffix naming,
- 4. Inject the USB storage device,
- 5. Restart the App.

A Web TV URI example can be provided by Qeedji.

- 1. In both files, replace the https://www.youtube.com/embed/18PM17tUDIE?autoplay=1 URL by your own Web TV URL,
- 2. In both files, replace the im:userDuration value (e.g. 00:01:00,000) according to your need to define the intrinsic URI duration,
- 3. Rename the both file with a name consistent with your URL and by respecting the suffix naming,
- 4. Inject the USB storage device,
- 5. Restart the App.

For further information, contact support@qeedji.tech.

7.16 Appendix: Microsoft Azure AD portal for Microsoft Power BI application

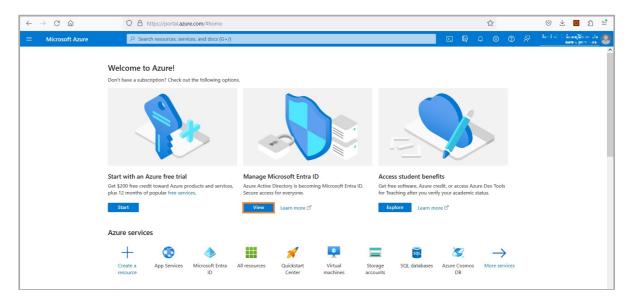
You can create your Azure Active Directory (or Azure AD) application by following this Microsoft tutorial https://docs.microsoft.com/en-us/graph/auth-register-app-v2.

A procedure example is shown here after by connecting to the Microsoft Azure portal.

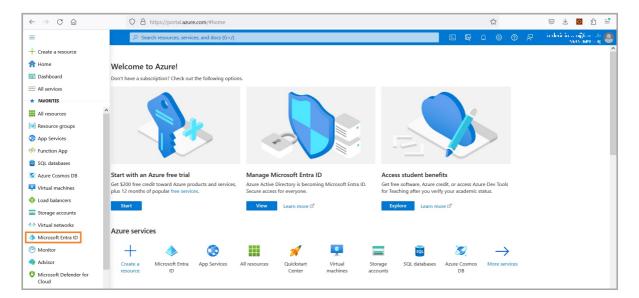
This procedure allows to generate you own client ID and SECRET required in for Power BI Online Viewer application:

- Directory (Tenant) ID,
- Application (client) ID,
- Client secret.

Connect on Microsoft Azure portal: https://portal.azure.com/ and sign in with your Microsoft 365 (M365) administrator account login credentials. Click on the left top menu and choose the Azure Active Directory item.



Either click on the View button of the the Manage Microsoft Entra ID section or click on the Home button then in the menu select the Microsoft Entra ID item.



Application (client) ID and directory (Tenant) ID

On the App registrations menu, click on New registration.

← → C 🔒 portal.azure.com/	#blade/Microsoft_AAD_IAM/ActiveDirectoryMenuBlade/Re	igisteredApps			© ☆ ★ 2	1 E
	$\mathcal P$ Search resources, services, and docs (G+/)		D 🕞 Q	@ ? R	bbeijinneed onricros	NNE
Home >						
Azure Active Directory	ations 🖈 …					×
 Overview Preview features 	New registration	noting 🕐 Refresh 🞍 Download 🐻 Preview features 🛇 Got feed	back?			×
✗ Diagnose and solve problems	Try out the new App registrations search preview! Cliv	ck to enable the preview. $ ightarrow$				^
Manage	Starting June 30th, 2020 we will no longer add any ne will no longer provide feature updates. Applications y	ew features to Azure Active Directory Authentication Library (ADAL) and Azure AD Grag vill need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Gra	oh. We will continue to p aph. Learn more	rovide technical suppor	rt and security updates but we	×
 Groups External Identities 	All applications Owned applications Deleter	d applications (Preview)				
& Roles and administrators	Start typing a name or Application ID to filter these	e results				
 Administrative units Enterprise applications Devices 	Display name	Application (client) ID		Created on	Certificates & secrets	*
App registrations						
Identity Governance						
Application proxy						
Licenses						
Azure AD Connect						
🐖 Custom domain names						
Mobility (MDM and MAM)						

Enter an application name (e.g.: *PowerBi-App*), Select the appropriate Account in the organization directory only (organization only – Single tenant) radio button, and press on the Register button.

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E Microsoft Azure Dearch resources, services, and docs (G+/)		Q
Home > 11-5 a App registrations >		0
Register an application	×	0
* Name The user-facing display name for this application (this can be changed later).		-
ne user-lacing display name for inis application (inis can be changed later). PowerBi-App		+
(vaenosh)		
Supported account types		
Who can use this application or access this API?		
Accounts in this organizational directory only (INNES only - Single tenant)		
Accounts in any organizational directory (May Azure AD directory - Multitemant)		
Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox) Personal Microsoft accounts only		
Help me choose		
Redirect URI (optional)		
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be		
changed later, but a value is required for most authentication scenarios.		
Select a platform V e.g. https://example.com/auth		
Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from Enterprise applications.		
By proceeding, you agree to the Microsoft Platform Policies p ^a		
Register		
		錼

In the Overview menu, copy to clipboard the Application (client) ID value, the 1st value required in TAB10b configuration tab and store it preciously.

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Home > ■.* ► App registrations > PowerBi-App	×	0 0
 ✓ Search « ₩ Overview 	Delete 🕀 Endpoints 🖬 Preview features	-
 Quickstart Integration assistant 		+
Manage Branding & properties Authentication	Object ID : + 11 + 42 + 42 + 42 + 42 + 44 + 44 + 44	
Certificates & secrets Token configuration	Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? Learn more ×	
API permissions Expose an API	Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and security updates but we will no Karana and a security updates and a security updates but we will no	
 App roles Owners 	Get Started Documentation	
& Roles and administrators Manifest	Build your application with the Microsoft identity platform The Microsoft identity platform is an authentication service, open-source libraries, and application management tools. You can create modern, standards-	
Support + Troubleshooting	based authentication solutions, access and protect APIs, and add sign-in for your users and customers. Learn more effective	
2 New support request		

In the Overview menu, copy to clipboard the Directory (tenant) ID value, the 2nd value required in TAB10b configuration tab and store it preciously.

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Microsoft Azure	🔎 Search resources, services, and docs (G+/) 💿 🚱 🔗 🤗 R 👘 👘 🖓 💩 🚱 R 👘 👘 🖓	Q
Home > ■.* □ App registrations > PowerBi-App Ø ···	×	0 0
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Overview Quickstart Quickstart Integration assistant Manage Randing & properties Quickentication	Assentials Display name SeverBi-App Client credentials Application (dient) ID SeverBi-App Client credentials Sederect URIs Sederect URIs	+
Certificates & secrets Token configuration API permissions	 Welcome to the new and improved Appregistrations. Looking to learn how it's changed from App registrations (Legacy)? Learn more Starting June 30h. 2000 we will no longer add any new features to be uncoded to the Apprendix Authentication. Library (ADAL) and Accure ADG caph. We will continue to provide technical support and security updates but we will no 	
Expose an API App roles Owners	Get Started Documentation	
A Roles and administrators Manifest Support + Troubleshooting Troubleshooting	Build your application with the Microsoft identity platform The Microsoft identity platform is an authentication service, apen-source libraries, and application management tools. You can create modern, standards- based authentication solutions, access and protect APRs, and add sign-in for your users and customers. Learn more of	
New support request		口 袋

Client secret

In the Certificates & secrets menu, click on the New client secret button.

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Home > II + La App registrations > P	owerBi-App										0
💡 PowerBi-App Certi	ficates & secrets 👒 …								×		
	₽ Got feedback?										0
Uverview											-
🚳 Quickstart	Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.										$^+$
🚀 Integration assistant	schene), For a nigher level of assurance, we recommend using a certorcate (instead of a citerit secter) as a credemaa.										
Manage	Application registration certificates, secrets and federated credentials can be found in the tabs below.	×									
Branding & properties	Application registration certificates, secrets and recented certentials can be round in the table below.										
Authentication	Certificates (0) Client secrets (0) Federated credentials (0)										
Certificates & secrets	A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.										
Token configuration	A sector string that the upproximant data to prove hancoming which requesting a torong has due to referred to as upproximant passwore.										
 API permissions 	+ New client secret										
Expose an API	Description Expires Value 🕢 Secret ID										
App roles	No client secrets have been created for this application.										
A Owners											
 Roles and administrators 											
Manifest											
Support + Troubleshooting											
Troubleshooting											
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Enter a name (e.g.: ${\tt my_client_secret}$) and press on the ${\tt Add}\,$ button.

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Microsoft Azure	≫ Search resources, services, and docs (G+/)	🛛 🕞 🖓		letion kongli textope	anst 🔕	Q
•	ficates & secrets 👒 …	Add a client secret	my_client_secret		×	۵ ۵
 	Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web address scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.	Expires	Recommended: 180 days	(6 months)	~	+
Manage Branding & properties	Application registration certificates; secrets and federated credentials can be found in the tabs below.					
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Epose an API App roles Owners Monifest Manifest Support + Troubleshooting Troubleshooting Now support request	Description Expires Value ① Secret ID No client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secrets have been created for this application. Image: Client secret secrets have been created for this application. Image: Client secret s					
		Add Cancel				£33

Copy into clipboard the client secret value, the 3rd input for the TAB10b configuration tab and store it preciously.

△ Do it right now because the *client secret* value is not visible anymore as soon as you click on a new Web page.

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🚀 Integration assistant	Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTIPS									
Manage	creating control and approximations to totening memory to the automication service when receiving toters at a web autoessable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.									
Branding & properties										
Authentication	Application registration certificates, secrets and federated credentials can be found in the tabs below. X									
Certificates & secrets										
Token configuration	Certificates (0) Client secrets (1) Federated credentials (0)									
 API permissions 	A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.									
Expose an API										
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Roles and administrators	my_dient_servet 10/8/2023 instend Scholly-adversalities in the CONTRACT Methods and the D									
m Manifest										
Support + Troubleshooting										
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New support request										
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When the secret is out of validity date, delete it and create a new one. Copy into clipboard the client secret value, the 3rd input for the TAB10b configuration tab and store it preciously.

Grant permissions

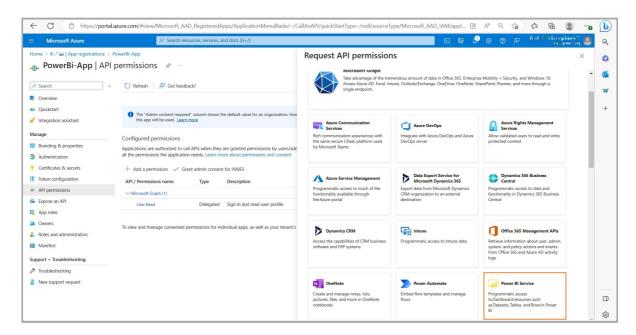
In the API permissions menu, press on the Add a permission button.

For powerbi application, these permissions must be granted:

- App.Read.All,
- Content.Create,
- Dataset.ReadWrite.All,
- Report.ReadWrite.All.

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Overview														
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Manage Branding & properties Authentication			are granted permissions by users/adm re about permissions and consent	nins as part of the consen	t process. The list of config	gured permissions shou	ld include							
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Token configuration	API / Permissions name	Туре	Description		Admin consent requ	Status								
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App roles														
A Owners	To view and manage consented	ermissions for inc	dividual apps, as well as your tenant's o	consent settings, try Enter	prise applications.									
Roles and administrators														
Manifest														
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Scroll to the bottom and click on the Power BI Service button.



Select then the Delegated permissions button.

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Certificates & secrets Token configuration	+ Add a permission ✓ Grant API / Permissions name	admin consent	for INNES Description			
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App roles App roles Avantic control of the second se	To view and manage consented per	missions for inc	fividual apps, as well as your tenant's			
				Add permissions Discard		日 袋

In the display filter input, enter the text calendar and check the option Calendars.Read.

The Do not press now on the Add permissions button right now.

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≡ Microsoft Azure	🔎 Search resources, services, and docs (G+/) 🛛 💀 🖓 🛞 🔗 🧟 🖉 🖉						
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Branding & properties Authentication Certificates & secrets	Configured permissions Applications are authorized to call APIs when they are granted permissions by users/adn all the permissions the application needs. Learn more about permissions and consent + Add a permission \checkmark Grant admin consent for INNES	Select permissions	expand all				
Token configuration API permissions	Add a permission Graph (1) Grant admin consent for Invices API / Permissions name Type Description Microsoft Graph (1)	The "Admin consent required" column shows the default value for a permission, user, or app. This column may not reflect the value in ye used. <u>Learn more</u>					
Expose an API App roles Avolution Approvers	User.Read Delegated Sign in and read user profile To view and manage consented permissions for individual apps, as well as your tenant's	Permission V App (1)	Admin consent required				
& Roles and administrators Manifest Support + Troubleshooting		App.Read.All View all Power BI apps Capacity	No				
Troubleshooting New support request		> Content		•			
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Expand the Content tab and check the Content.Create permission.

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Owners Roles and administrators Manifest	To view and manage consented permissions for individual apps, as well as your tenant's	> App (1) > Capacity				
Support + Troubleshooting Troubleshooting New support request		Content (1) Content.Create Create content	No			
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In the Dataset part, select the Dataset.ReadWrite.All option.

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 & Roles and administrators Manifest Support + Troubleshooting 		Dataset.Read.All View all datasets Dataset.ReadWrite.All	No			
Support + Iroubleshooting P Troubleshooting New support request		Read and write all datasets	No			
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In the Report part, select the Report.ReadWrite.All option.

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✓ Search «₩ Overview	🕐 Refresh 🛱 Got feedback?	(All APIs Power BI Service https://analysis.windows.net/powerbi/api/ Docs C [®] What type of permissions does your application require?		•					
 Quickstart Integration assistant 	The "Admin consent required" column shows the default value for an organization. How this app will be used. <u>Learn more</u>	Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.	+					
Manage Branding & properties Authentication	Configured permissions Applications are authorized to call APIs when they are granted permissions by users/adm all the permissions the application needs. Learn more about permissions and corsent	Select permissions	expand all						
Certificates & secrets Token configuration API permissions	Add a permission Grant admin consent for INNES API / Permissions name Type Description Videosoft Graph (1)	The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value in your organization, or in organizations where this app will be used. <u>Learn</u> more							
Expose an API App roles	User/Read Delegated Sign in and read user profile	Permission	Admin consent required						
Owners Roles and administrators Manifest	To view and manage consented permissions for individual apps, as well as your tenant's	Report.Read.All ① View all reports	No						
Support + Troubleshooting		Report.ReadWrite.All ① Read and write all reports	No						
New support request									
		Add permissions Discard		ت چ					

In the Dashboard part, select the Dashboard.ReadWrite.All option.

$\leftarrow \rightarrow$ C \textcircled{a}	A https://portal.azure.com/#view/Microsoft_AAD_Registerer	dApps/ApplicationMenuBlade/~/CallAnAPI/appld/b463ee31-fcf8-45c6-a693-50b5f1a ක්ර	ອ ± 🔯 ຊຳ 📑						
	,P Search resources, services, and docs (G+/)		🛛 🖉 🖉 Örskricar samérines h 🤮						
Home > Home > App registrations > PowerBi-App API	permissions 🖈 …	Your application needs to access the API as the signed-in user. Your application nuss signed-in user.	as a background service or daemon without a						
 ➢ Search « ₩ Overview Quickstart ✓ Integration assistant 	Refresh R Got feedback? The "Admin consent required" column shows the default value for in organizations where this app will be used. <u>Learn more</u>	Select permissions	expand all						
Manage Branding & properties Authentication	Configured permissions Applications are authorized to call APIs when they are granted permi all the permissions the application needs. Learn more about permissi								
Certificates & secrets Token configuration	 + Add a permission Grant admin consent for INNES API / Permissions name Type Description 	✓ Dashboard (1)							
API permissions	✓ Microsoft Graph (1)	Dashboard.Execute.All Make API calls that require execute permissions on all dashboards	No						
 Expose an API App roles 	User.Read Delegated Sign in and read	Dashboard.Read.All ① View all dashboards	No						
Owners Roles and administrators	App.Read.All Delegated View all Power f	Dashboard.ReadWrite.All O Make API calls that require read and write permissions on all dashboards	No						
Manifest	Content.Create Delegated Create content Dataset.ReadWrite.All Delegated Read and write	Dashboard.Reshare.All O Make API calls that require reshare permissions on all dashboards	No						
Support + Troubleshooting Image: Support + Troubleshooting Image: New support request	Report.ReadWrite.All Delegated Make API calls to		~						

Click now on the Add permissions button.

At this step, the permissions are not yet granted. Click on the Grant admin consent for <your_organization> button.

\leftrightarrow \rightarrow C \textcircled{a}	O A https://portal.azure.com/	#view/Microsof	t_AAD_RegisteredApps/ApplicationMenuBlade/~/CallAnAF	l/appld/b463ee31-fcf8-4	15c6-a693	3-50b51	1a2 🟠			S 7 5	5
Microsoft Azure	\mathcal{P} Search resources, services, and	docs (G+/)			Σ	P	I	3 ⑦	ନ	houricinaar® mea Seo as seo	<u>, i</u> (
Home > HIII App registrations	> PowerBi-App										
_• PowerBi-App Al	PI permissions 👒 …										\times
₽ Search	« 🕐 Refresh 🛛 🖗 Got feedba	:k?									
Uverview	You are editing permission(s)	to your application	on, users will have to consent even if they've already done so previou	isly.							
Quickstart											
Integration assistant	Configured permissions										
lanage			are granted permissions by users/admins as part of the conser	nt process. The list of confi	gured per	mission	s should i	nclude			
Branding & properties	all the permissions the application	needs. Learn mo	pre about permissions and consent								
Authentication	🕂 Add a permission 🗸 Gran	t admin consen	t for ===								
Certificates & secrets	API / Permissions name	Туре	Description	Admin consent requ	Status						
Token configuration	✓ Microsoft Graph (1)										
API permissions	User.Read	Delegated	Sign in and read user profile	No							
Expose an API	← Power BI Service (5)										
App roles	App.Read.All	Delegated	View all Power BI apps	No							
Mowners 2	Content.Create	Delegated	Create content	No							
Roles and administrators	Dashboard.ReadWrite.All	Delegated	Make API calls that require read and write permissions on	No							
Manifest	Dataset.ReadWrite.All	Delegated	Read and write all datasets	No							
Support + Troubleshooting	Report.ReadWrite.All	Delegated	Make API calls that require read and write permissions on	No							
Troubleshooting											
New support request	To view and manage consented pe	rmissions for inc	dividual apps, as well as your tenant's consent settings, try Ente	rprise applications.							

$\leftarrow \rightarrow$ C \textcircled{a}	O A https://portal.azure.com/	#view/Microsof	t_AAD_RegisteredApps/ApplicationMenuBlade/~/CallAnAP	Pl/appld/b463ee31-fcf8-	45c6-a693-50	o5f1a2 않			🖂 🛨 🖸
Microsoft Azure	$\mathcal P$ Search resources, services, and	docs (G+/)			D G	P @	0	ନ୍ଦ	tivelatio in card) instants HHC 1 F HC 19
Home > Here App registration:	s > PowerBi-App								
₋ PowerBi-App A	API permissions 👒 …								×
₽ Search	« 🕐 Refresh 🛛 🖗 Got feedba	:k?							
👯 Overview	Successfully granted admin co	insent for the req	uested permissions.						
🗳 Quickstart									
🚀 Integration assistant	Configured permissions								
Manage	5	APIs when they	are granted permissions by users/admins as part of the conser	nt process. The list of conf	igured permiss	ions should in	clude		
Branding & properties	all the permissions the application								
Authentication	🕂 Add a permission 🗸 Gran	t admin consen	t for D .						
🕈 Certificates & secrets	API / Permissions name	Туре	Description	Admin consent requ	Status				
Token configuration	∽ Microsoft Graph (1)								
API permissions	User.Read	Delegated	Sign in and read user profile	No	🕑 Granted fo	or 55.75			
Expose an API	∽ Power BI Service (5)								
App roles	App.Read.All	Delegated	View all Power BI apps	No	Granted fo	or 1.1			
A Owners	Content.Create	Delegated	Create content	No	📀 Granted fr	or these			
Roles and administrators	Dashboard.ReadWrite.All	Delegated	Make API calls that require read and write permissions on	No	Granted fo	or the			
0 Manifest	Dataset.ReadWrite.All	Delegated	Read and write all datasets	No	🥝 Granted fr	or 1.1.15			
Support + Troubleshooting	Report.ReadWrite.All	Delegated	Make API calls that require read and write permissions on	No	📀 Granted fr	or			
Troubleshooting									

Powershell

The application can be created easily with a Powershell script. For further information, refer to the chapter § Appendix: Azure AD Application Powershell module for Power BI Online Viewer application.

7.17 Appendix: Azure AD Application Powershell module for Power BI Online Viewer application

Download the Powershell_Innes_AAD-1.10.17.zip from the Innes Site Web then follow the instructions below.

Introduction

This set of Powershell functions allows to:

- create an Azure Active Directory application, with the New-AADApplication function,
- remove an Azure Active Directory application, with the Remove-AADApplication function.

These functions are defined in the PSAAD PowerShell module stored in the Modules\PSAAD\ directory.

The result of the Powershell functions is also stored in a JSON file.

Edit the file and store preciously the values which could be required for your application:

- the clientId value.
- the tenantId value.
- the clientSecret value.

Security

By default, the execution of local *Powershell* scripts are not allowed. You can change their execution rights by changing the *PowerShell* security policy. This modification has to be done once with the Set-ExecutionPolicy *Powershell* function. Your organization may have to change it according to your security rules.

For example, to authorize the execution of all scripts, launch a Powershell console with administrator rights, and type:

PS > Set-ExecutionPolicy -ExecutionPolicy Unrestricted -scope CurrentUser

For further information, look at the cmdlet Set-ExecutionPolicy help page.

If you cannot allow the execution of unsigned local scripts, you can install the provided certificate in the list of authorized root certificates with the command:

```
PS > cd <your_path_to_the_scripts>\Powershell_Innes_AAD\Certificate\
PS > Import-PfxCertificate -FilePath InnesCodeSigningRootCA_1.pfx -CertStoreLocation ../..
cert:\CurrentUser\Root -Password $(ConvertTo-SecureString "1234" -AsPlainText -Force)
```

To import the .pfx certificate, you can also use the MS-Windows application certmgr.msc, select the Trusted Root Certification Authorities, right click on ALL Tasks, select the Import item, select the file and enter the password 1234. When ended, close the current Powershell console.

Prerequisite

Install the Azure AD module

Install the AzureAD module with the command below:

```
PS > Install-Module -name AzureAD -scope CurrentUser
```

Dependency

If this message is prompted, enter Y.

```
The NuGet supplier is required to continue

PowerShellGet requires the NuGet vendor, version 2.8.5.201 or later, to interact with the repositories.

The NuGet provider must be available in "C:\Program Files\PackageManagement\ProviderAssemblies" or ../..

"C:\Users\<username>\AppData\Local\PackageManagement\ProviderAssemblies".

You can also install the provider NuGet by executing the command "Install-PackageProvider -Name NuGet ../..

-MinimumVersion 2.8.5.201 -Force". Do you want that PowerShellGet installs and imports the NuGet provider now?

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"):
```

If this message is prompted, enter Y.

```
Unapproved repository
You install the modules from an unapproved repository. If you approve this repository, change its ../..
InstallationPolicy value by running the Set-PSRepository command applet. Do you really want to install From PSGallery ?
[Y] Yes [T] Yes for all [N] No [U] No for all [S] Suspend [?] Help (default is "N"):
```

Usage

To use one of the Powershell modules, you have to define the environment variable for PSAAD. You have 3 possibilities:

- 1. Either copy the directories under Modules\ into a standard *Powershell* module installation directory, for example C:\Program Files\WindowsPowerShell\Modules. Then launch a *Powershell* console.
- 2. Or redefine the search variable for *Powershell* modules (the \$Env:PSModulePath *Powershell* variable) each time you will use theses functions. In this case, launch a *Powershell* console, and type the line below, adapting it to your path. Each time you launch a new *Powershell* console, you need to enter it again.

Example:

PS > \$Env:PSModulePath="\$Env:PSModulePath;C:\Program Files (x86)\WindowsPowerShell\Modules"

3. Or redefine the search variable for *Powershell* modules in the Windows environment variables. For that, add the path /Powershell_Innes_AAD\Modules to the environment variable PSModulePath. Then, launch afterwards a Powershell console.

To use the functions or get help, you must then import the module(s) with the Import-Module function. Example:

```
PS > Import-Module PSAAD
```

Depending on how you get the scripts, you may have this following warning:

Security Warning Run only scripts that you trust. While scripts from the Internet can be useful, ../.. this script can potentially harm your computer. Do you want to run \server\scripts\my.ps1? ../.. [D] Do not run [R] Run once [S] Suspend [?] Help (default is "D"):

To avoid this message, you can unblock the script files (to do only once):

PS > cd <your_path_to_the_scripts>\Powershell_Innes_AAD\
PS > dir -Recurse | Unblock-File

The Get-Command function allows you to list the functions defined in a module. Example:

PS > Get-Command -Module PSAAD

Answer example:

Name	Version	Source
New-AADApplication	1.10.17	PSAAD
Remove-AADApplication	1.10.17	PSAAD
	New-AADApplication	New-AADApplication 1.10.17

You can get help on each function of the module by using the standard cmdlet Get-Help with options:

- -detailed,
- -full,
- -examples.

Example:

PS > Get-Help -detailed New-AADApplication

NAME

New-AADApplication

SYNOPSIS

This function creates a Azure Active Directory application.

SYNTAX

New-AADApplication [[-Credential] <PSCredential>] [[-tenantId] <String>] [-appName] <String> [-authorizations] <String[]> [[-LogFile] <String>] [<CommonParameters>]

DESCRIPTION

This function creates a Azure Active Directory application.

PARAMETERS

-Credential <PSCredential>

Credential (admin profile) used to create the Azure Active Directory application. If absent, a dialog is displayed in the browser to enter the credentials.

-tenantId <String>

Azure Active Directory Tenant Id of the tenant in which the application has been created. This parameter is not mandatory. If absent, the tenantId is retrieved automatically after the credentials have been entered in the dialog.

-appName <String>

Name of the Azure Active Directory application.

-authorizations <String[]>

- Authorization type:
 - "signcom_m365" : to access to M365 files and folders resources and Web sites for SignCom application
 - "url_launcher_m365" : to access to M365 Web sites for URL launcher application
 - "signmeeting_ews": to access to MS-Exchange room mailbox resources for SignMeeting MS-Exchange application
 - "signmeeting_m365": to access to M365 room mailbox resources for SignMeeting-M365 application
 - "briva_calendar_ews": to access to MS-Exchange room mailbox resources for Briva Calendar EWS application
 - "m365_room": to access to M365 room mailbox resource for SBL10e m365_room application
 - "m365_user": to access to M365 user presence resource for SBL10e m365_user application
 - "powerbi": to access to Power BI reports and Power BI dashboards

-LogFile <String>

Log file path

<CommonParameters> This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

```
----- EXAMPLE 1 -----
```

PS C:\>\$result = New-AADApplication -appname "PowerBIApp" -authorizations "powerbi"

objectId	xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx
spId	xxxxxxxx-xxxx-xxxx-xxxx
name	PowerBIApp
tenantId	xxxxxxxx-xxxx-xxxx-xxxx
clientSecret	*****

Example to create an Azure Active Directory application for Gekkota

For example, to create a *powerbi* (free text) Azure AD application to view an online Microsoft Power BI report or Power BI dashboard, generate the *client Id*, the *tenant Id* and the *client secret* and store temporarily these values in the *powerbi_var* variable:

PS > \$powerbi_var = New-AADApplication -appname "PowerBiApp" -authorizations "powerbi"

- Don't use an already existing app name else an error is returned.
- Don't use space characters in the app name else an error is returned.

🛆 Clicking on a Powershell window can suspend the command. In this case click again in the window to resume the command.

A login popup is displayed. Enter once your Microsoft 365 login credentials.

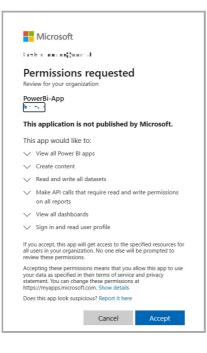
This message is then displayed in a Powershell context.

You must log into an administrator account of your organization and grant the necessary permissions. A consent request will be sent within 30 seconds in your browser.

After 30 seconds, a login popup should be prompted (https://login.microsoftonline.com/) automatically in your default Web browser.

Enter again your Microsoft 365 login credentials.

A new popup message with the *Permission requested, review for your organization* title is prompted in your Web browser. Press on the Accept button. Then a message is displayed in your Web browser showing that the consent is successful: *Success of the consent request.*



You can view the data of the created application by typing the following syntax

A The following variable name is the same as the one you have used in the previous command above.

For example, to display the result of the previous command allowing to watch the client Id, the tenant Id and the client secret values:

PS > \$powerbi_var	
Name	Value
clientId	xxxxxxxx-xxxx-xxxx-xxxx
objectId	xxxxxxxx-xxxx-xxxx-xxxx
spId	xxxxxxxx-xxxx-xxxx-xxxxx
name	PowerBiApp
tenantId	xxxxxxxx-xxxx-xxxx-xxxxx
clientSecret	*****

The result of the Powershell function is also stored in a JSON file (in the example: powerbi_var.json).

Edit the file and store preciously the values required for your application:

- the clientId value,
- the tenantId value,
- the clientSecret value.

Example to delete an Azure Active Directory application

```
PS > Remove-AADApplication -appname "PowerBiApp"
```

A login popup is opened. Enter your M365 credentials.

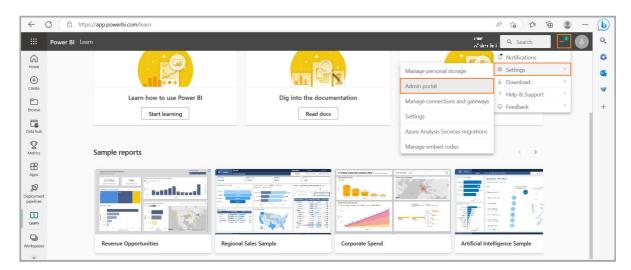
In case the values do not allow Power Bi Online viewer to work properly, check in Microsoft Azure portal that the application has been created succesfully and the rights are properly granted. If not, wait for a while, the rights granting may take few hours.

7.18 Appendix: Power BI Online Viewer with Microsoft OAuth application mode: additional permissions

The configuration of Azure AD application does not allow to grant enough permissions to view the report when the Microsoft OAuth application mode is chosen. To finalize the granting of these additional permissions, follow these two steps.

Allowing Azure AD application to use Power BI APIs

Connect to the https://app.powerbi.com portal with a Microsoft 365 account having Power BI administration rights.



In the upper banner, click on the ... button then select the Settings item then the Admin portal item.

~	C 🗈 https://app.powerbi.com/ad	lmin-portal/tenantSettings A ^N	tê t≅	æ		b
	Power BI Admin portal	ren Afrika ini	Q Search		2 📀	٩
Home	Admin portal					۵ ۵
(+) Create	Tenant settings				- 1	
Browse	Usage metrics Users	© Settings enabled for the entire organization apply to all users and service principals			×	+
Data hub	Premium Per User	Developer settings				
P Metrics	Audit logs Capacity settings	Embed content in apps Enabled for the entire organization				
Apps	Refresh summary Embed Codes	Allow service principals to use Power BI APIs Enabled for the entire organization				
Deployment pipelines		Web apps registered in Azure Active Directory (Azure AD) will use an assigned service principal to access Power BI APIs without a signed in use IC allow an app to use service principal authentication its service principal must be included in an allowed security group. Learn more				
Learn	Workspaces Custom branding	Enabled				
	Protection metrics	© Service principals can use APIs to access tenant-level features controlled by Power				
Workspaces	; Featured content	BI service admins and enabled for the entire organization or for security groups they're included in. You can control access of service principals by creating dedicated security groups for them and using these groups in any Power BI tenant level-settings. <u>Learn more</u>				
workspace		Apply to:				
		The entire organization Specific security groups (Recommended)				
		Except specific security groups				ŵ

In the Admin portal pane, scroll to the top to find the Developer settings part. select Allow service principals to use Power BI APIs, toggle the option to the right to the *Enabled* value, check the The entire organization option. Click on the Apply button to apply the modificiation.

Allowing the Azure AD application to access to the workspace hosting the report

Connect to the https://app.powerbi.com portal with a Microsoft account having rights to modify the workspace rights.

On the side tool banner, click on the Workspace item.

Click on the ... button of the workspace hosting your report and click on the Workspace Access item.

~ ·	C 🗈 https://app.powerbi.com	/groups/me/list					A to t= 🖻 😩	🜔
	Power BI My workspace					rine Maler M	Q Search ⁽²⁾	۹
Home	Workspaces							ې ۵
(+) Create	Q Search				≡ v	ïew ∽	Q. Search	1
Browse	ိ My workspace							+
Data hub	All 😵 workspace	···· Workspace settings	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	
P Metrics		Workspace access t	$\mathbf{x},\mathbf{Y}'\in \mathbf{f}_{n+1}$	11/04/23, 16:06:20	N/A	-	-	
Apps								
Deployment pipelines								
Learn								
Workspaces								
8 My workspace								
	+ New workspace							日 段
								~~~

On the Access pane on the right, enter the name of the Azure AD application previously created (e.g. *PowerBi-App*) to access to the report, select the Viewer permission then click on the Add button.

	Power BI Workspace			Q, Search				Trial: 24 days I	eft 🕫 🕸 🛓	? © ጸ
Home (+) Create	Workspace						View	ප Access Workspace		×
Browse Data hub	All Content Datasets + dataflows	Туре	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Add admins, members, or contri Enter email addresses	outors. <u>Learn more</u>	
Metrics Apps	report-desktop     report-desktop     report-desktop	Report Dataset	Workspace Workspace	16/05/23, 15:21:37 16/05/23, 15:21:37	— N/A	-	-	Member	Add	~
Deployment pipelines								۹ Search NAME	PERMISSION	
Learn								ter en	Admin Member	
Workspace, II								PowerBi-App ()	Member	
										Close

# Power BI reports coming from Power BI Desktop

Power BI reports published on your Power BI App workspace from Power BI Desktop are supported.

# **Report error 401**

In case the report cannot be viewed with the Power BI Online Viewer App and an error 401 is raised, try with another report hosted on another workspace. To be successfully viewed, the Power BI report must consist in two part in the workspace:

- data
- report

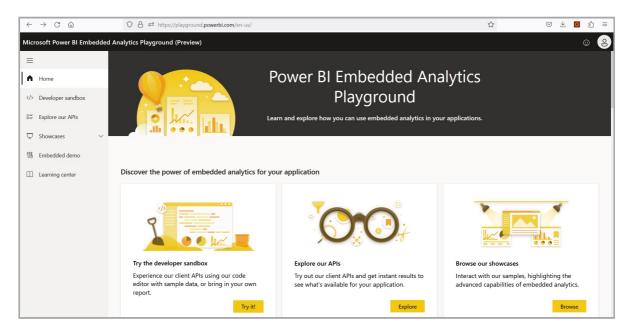
$\leftarrow \rightarrow$	C @	O A ē² https://app.p	owerbi.com/groups/a271a2f7	-828a-4594-b734-de	721cb35bbc/list				☆		. ⊘	± 🖸 ଛ =
	Power BI Worksp	ace			Q Search				Triak 24 days left	-	$\pm$	? 😳 🙎
Image: New Y         Workspace         Create app           Image: New Y         * Upload *         View F         Filters T         © Access         Q. [Search								Create app				
Browse Data hub	All Content	Datasets + dataflows										
	D Name		Туре	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Included in app			
₽ Metrics	de repor	-desktop	Report	Workspace	16/05/23, 15:21:37	-	-	-	No No			
EB Apps	0 repor	t-desktop	Dataset	Workspace	16/05/23, 15:21:37	N/A	1	-				

# 7.19 Appendix: Test your report with the Power BI Playground platform

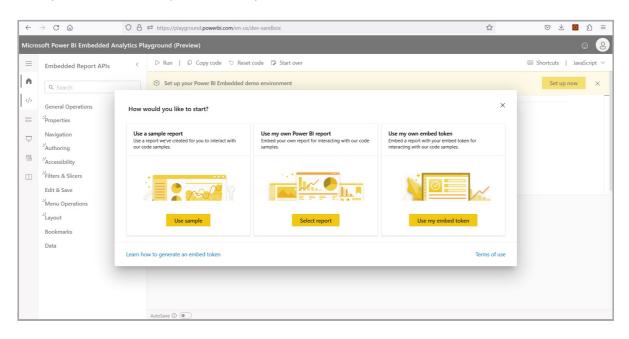
Before playing your report with the built-in Power BI Online Viewer App, check that your report can be embedded on device by using the Power BI Playground platform.

Connect to this portal https://playground.powerbi.com/en-us/ by using your Power BI service account.

Click on the Try it! button of the Try the developper sandbox block.



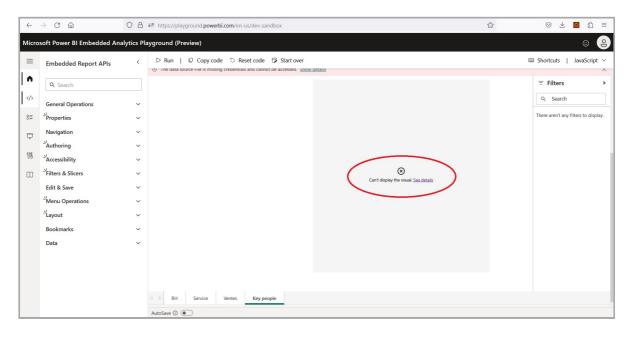
Click on the Select report button of the Use my own Power BI report block.



Select the workspace name where is hosted your report, then select your report in the selected workspace.

~	$ ightarrow$ C $rac{1}{2}$	08	#ttps://playground.powerbi.com/en-us/dev-sandbox	☆	ල 🗶 📴 දු ≡
Micro	soft Power Bl Embedded An	alytics Pla	yground (Preview)		©
=	Embedded Report APIs	<	▷ Run   🖟 Copy code 🕤 Reset code 🗇 Start over		🖾 Shortcuts   JavaScript 🗸
n	Q. Search		⑦ Set up your Power BI Embedded demo environment		Set up now X
	General Operations	~	1		
0=	^{&gt;1} Properties	~	Select a report ×		
Ţ	Navigation	~	Select a report ×		
78	²⁴ Authoring	×	Choose the workspace that contains the report		
	^{SI} Filters & Slicers	~	Choose or enter the workspace name		
	Edit & Save	~	Select the report you'd like to embed		
	Menu Operations	~	Choose or enter the report name		
	² Layout Bookmarks	~	Embed Cancel		
	Data	~			
			AutoSave ()		

Navigate along all the pages of the report and check that all your data can be visualized.



In case error, try to resolve them in your Power BI Desktop or Power BI service and try again.

You can also click on the See details hyperlink of the vizualisation object in error. Copy the error then open a ticket on the Microsoft Power BI platform to raise the issue to Microsoft.

https://admin.powerplatform.microsoft.com/newsupportticket/powerbi

# 7.20 Appendix: Power BI Online Viewer known limitations

### **Known limitations**

API{} Data streaming visuals may not re refreshed properly by *Power BI Online Viewer* when using the *Microsoft OAuth User* credential type. To work around, use the *Microsoft OAuth Application* credential type.

The presence of some vizualisation object in the report, like the *Map* object, may prevent the report to progress to the next page. To work around, edit your *Power BI Desktop* report, remove from your report the visualization objet causing the trouble then publish again your report from *Power BI Desktop* to *Power BI Services*.

Facing HTTP 401 error when the report is played means that the credentials value are not consistent for this report or that a lack of Power BI report permissions prevent to view it.