

M1-NT24001	REV. : 4	TECHNICAL NOTE	MADIC industries
	APPLICATION DATE: 24/02/2025	COMPATIBILITY VERSION TABLE OCPP / TERMINAL AND ROUTER	
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VALIDATION DATE	PURPOSE OF THE REVISION
26/02/2024 21/10/2024 26/11/2024 24/02/2025	Creation OCPP 318 KIPA 313 and KIPB 313 OCPP 400

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1 SUBJECT

This document explains the choice and compatibility of versions between the OCPP Kit and the terminal.

2 PREAMBLE

Like the terminal, the OCPP kit features embedded software divided into three kernels with different versions.

To avoid software incompatibility, it is essential to match the version kernels of the OCPP kit and the terminal.

It is possible to upgrade the kernel of a **V1XX** OCPP kit to a **V2XX** without any problem.

Switching from an OCPP **V1XX** or **V2XX** kernel version to **V3XX** is **only possible with MASTER SD**.

(Madic reference 17806385) (see **NT-23006 Migration of OCPP kit to version 3XX using master SD**).

The terminal has no barrier between the different versions of its kernel, so it can switch from a **V1XX** to a **V3XX**.

NB: Due to a component change, **terminals built from April 2023 onwards cannot work with V1XX and V2XX versions.**

Both **V1XX** and **V2XX** OCPP kernels use the **OCPP 1.5 SOAP** protocol.

The **V3XX** version of the OCPP kernel can use either the **OCPP 1.5 SOAP** protocol or the **OCPP 1.6 JSON** protocol.

NB: MID counters can only be used with an OCPP version 310 kit and the corresponding terminal version.

3 IDENTIFY THE RIGHT UPDATE FILE

Update file names, for both **V1XX** and **V2XX** kernels, contain three important pieces of information:



To differentiate between a **Pulse 22** and a **Pulse 50** file, you need to interpret the last letter of the terminal version's **KIPX**, such as :

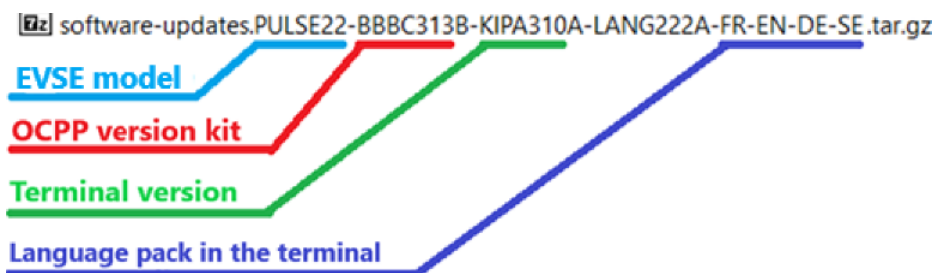
 fullKIPA241A
  fullKIPB220A

KIPA = Pulse 22 WL / GL

KIPB = Pulse 50

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For **V3XX** versions, the type of terminal associated with the update file is shown first in the example below:



3.1 KIT OCPP + TERMINAL UPDATE FILE

Update files in **V1XX** and **V2XX** kernels have a **.bin** filename extension :

-  `firmware-lafon-pulse-VBBBC212B110A-KIPA241A-LANG219A-FR-EN-DE-SE.bin`
-  `firmware-lafon-pulse-VBBBC212B110A-KIPA241A-LANG219B-ES-CA-FR-EN.bin`
-  `firmware-lafon-pulse-VBBBC212B110A-KIPA241A-LANG219C-EN-RU-ZH.bin`

For **Pulse 22 in V2XX version** :

Above we can see the version of the OCPP kit, the terminal version and the terminal language pack.

For **Pulse 50 in V2XX version** :

-  `firmware-lafon-pulse-VBBBC212B110A-KIPB220A-LANG219A-FR-EN-DE-SE.bin`
-  `firmware-lafon-pulse-VBBBC212B110A-KIPB220A-LANG219B-ES-CA-FR-EN.bin`
-  `firmware-lafon-pulse-VBBBC212B110A-KIPB220A-LANG219C-EN-RU-ZH.bin`

Above we can see the version of the OCPP kit, the terminal version and the terminal language pack.

The **V3XX** kernel files have a **.tar.gz** extension :

For **Pulse 22 in V3XX version** :

-  `software-updates.PULSE22-3.13.310AA-FR-EN-DE-SE.tar.gz`
-  `software-updates.PULSE22-3.13.310AB-ES-CA-FR-EN.tar.gz`
-  `software-updates.PULSE22-3.13.310AC-EN-RU-ZH.tar.gz`

Above we can see the version of the OCPP kit, the terminal version and the terminal language pack.

For **Pulse 50 in V3XX version** :

-  `software-updates.PULSE50-3.13.307BA-FR-EN-DE-SE.tar.gz`
-  `software-updates.PULSE50-3.13.307BB-ES-CA-FR-EN.tar.gz`
-  `software-updates.PULSE50-3.13.307BC-EN-RU-ZH.tar.gz`

Above we can see the version of the OCPP kit, the terminal version and the terminal language pack.

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For **Pulse WB-AC** :

 software-updates.WALLBOX-3.13.123WA-FR-EN-DE-SE.tar.gz

Above we can see the version of the OCPP kit, the terminal version and the terminal language pack.

NB: The **Pulse WB-AC** features an LED-only terminal, so language is irrelevant.

3.2 TERMINAL UPDATE FILE

When updating the terminal with the ST-LINK probe (**STM32 ST-LINK Utility software version 4.6 or higher**), only use files with a **.hex** extension (**see NT-23017 Using the ST-LINK probe for Pulse terminal devices**).

The file must be identified by the letter of the **fullKIPX**, as shown in the example below. For **Pulse 22** in **V2XX** version:

 fullKIPA241A-LANG219A-FR-EN-DE-SE.hex

For **Pulse 22** in **V3XX** version :

 fullKIPA307A-LANG221A-FR-EN-DE-SE.hex
 fullKIPA308A-LANG222A-FR-EN-DE-SE.hex
 fullKIPA310A-LANG222A-FR-EN-DE-SE.hex

Once again, the terminal language pack is displayed before the file extension.

For **Pulse 50** in **V2XX** version :

 fullKIPB220A-LANG219A-FR-EN-DE-SE.hex
 fullKIPB220A-LANG219B-ES-CA-FR-EN.hex
 fullKIPB220A-LANG219C-EN-RU-ZH.hex

For **Pulse 50** in **V3XX** version :

 fullKIPB307A-LANG222A-FR-EN-DE-SE.hex
 fullKIPB307A-LANG222B-ES-CA-FR-EN.hex
 fullKIPB307A-LANG222C-EN-RU-ZH.hex

Once again, the terminal language pack is displayed before the file extension.

For **Pulse WB-AC** :

 fullKIPW121A-A-FR-EN-DE-SE.hex
 fullKIPW122A-A-FR-EN-DE-SE.hex
 fullKIPW123A-A-FR-EN-DE-SE.hex

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4 PULSE 22 WL AND GL

OCPP kit version	Terminal version PULSE 22 WL and GL						
	241	309	310	311	312	313	400
212	OK	KO	KO	KO	KO	KO	KO
310	KO	OK	KO	KO	KO	KO	KO
311	KO	OK	OK	KO	KO	KO	KO
312	KO	KO	OK	KO	KO	KO	KO
313	KO	KO	OK	KO	KO	KO	KO
315	KO	KO	KO	OK	KO	KO	KO
316	KO	KO	KO	OK	KO	KO	KO
317	KO	KO	KO	KO	OK	KO	KO
318	KO	KO	KO	KO	OK	OK	KO
400	KO	KO	KO	KO	KO	KO	OK

5 PULSE 50

OCPP kit version	Terminal version PULSE 50							
	220	307	308	309	310	311	313	400
212	OK	KO	KO	KO	KO	KO	KO	KO
311	KO	OK	KO	KO	KO	KO	KO	KO
312	KO	OK	KO	KO	KO	KO	KO	KO
313	KO	OK	KO	KO	KO	KO	KO	KO
315	KO	KO	OK	KO	KO	KO	KO	KO
316	KO	KO	KO	OK	KO	KO	KO	KO
317	KO	KO	KO	KO	OK	KO	KO	KO
318	KO	KO	KO	KO	KO	OK	OK	KO
400	KO	KO	KO	KO	KO	KO	KO	OK

6 PULSE WB-AC

OCPP kit version	Terminal version PULSE WB-AC		
	123	124	200
311	OK	KO	KO
312	OK	KO	KO
313	OK	KO	KO
315	OK	KO	KO
316	OK	KO	KO
317	KO	OK	KO
318	KO	OK	OK
400	KO	KO	OK

NB: The OCPP 314 version must not be used.

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7 ROUTER

Any modification to router settings requires an on-site visit.

7.1 F3426 2G/3G ROUTER

Router F3426 2G / 3G			
Router version	OCPP kit version		
	2XX	3XX	316 or higher
7	OK	KO	KO
8	KO	OK	OK
9	KO	KO	OK 1



Note 1: OCPP kit must be configured as a fixed LAN IP

Connect to the OCPP kit interface with address: **192.168.1.254:5000**

Modify the network configuration of the OCPP kit in the **Read Configuration** menu, then in the **Network** submenu:

- **LAN_Mode** to true.
- **LAN_DHCP** to false.

Set the following parameters :

- **DNS 1** to 192.168.1.1
- **LAN_Gateway** to 192.168.1.1
- **LAN_NetMask** at 255.255.255.0
- **LAN_Network** to 192.168.1.0
- **LAN_StaticIP** to 192.168.1.254 (**254 if there is only one terminal on the router (general case)**).

Don't forget to click on **Update** for each modified line in the **Read Configuration** menu.



In this configuration, the ICCID of the SIM card is not displayed during BootNotification.

7.2 F3X26Q 4G ROUTER

Router F34X26Q 4G			
Version Routeur	Version Kit OCPP		
	2XX	3XX	316 or higher
7	OK	KO	KO
8	KO	OK	OK 2
9	KO	OK 3	OK



Note 2: Depends on the SIM card: If multi-operator card, we recommend upgrading to version 9.

Note 3: Conditionally, see : NT23013 - NT F3X26Q ROUTER SETTINGS IN DHCP-4G



MADIC INDUSTRIES recommends upgrading to the latest OCPP version.