SPS200 configuration guide

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Revision history

Revision	Date	Author	Description
1.0	30/04/2024	Jasper Mariën	First release

1. Prerequisites

We use the app: "NFC TagWriter" from NXP in this guide, and recommend using the same app.

2. List of commands

We make a distinction between commands you can send without knowing the pin code, and those were you do need a pin code:

- List of commands you can send without needing a PIN code:
 - o "on": power on the device
 - o "reset": power cycle the device
 - "test": used as a ping to the device.
 You can see the response "testrsp" by reading the NFC tag again afterwards.
 - "status": request the status of the device.
 You can see the response by reading the NFC tag afterwards.
 Possible responses:
 - generic SIM error
 - SIM PIN required
 - no SIM PIN retries left
 - no network found
 - NTP error
 - MQTT error
 - "glreg": get the configured LoRa region. If you read the tag after sending this command, there will now be a line that says "rsp=glregX" where X is:
 - $X = 5 \rightarrow EU868$
 - $X = 8 \rightarrow US915$
- List of commands for which you need the PIN code:
 - o "off": set the device in inactive state
 - o "newpinxxxxxxx": change the pin code to xxxxxxxx (Note, it is very important that you do not forget this pin code)
 - o "clrpin": resets the pin to the default pin code (12345678)
 - o "slregX: set the lora region, where X is:
 - X=5 -> EU868,
 - X=8-> US915

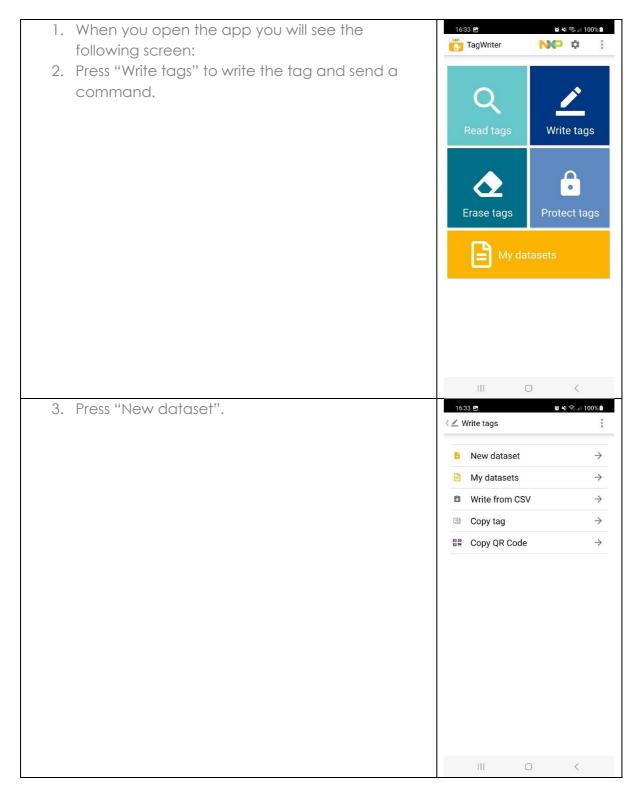
For the commands where you need a PIN, you need to send the command as following:

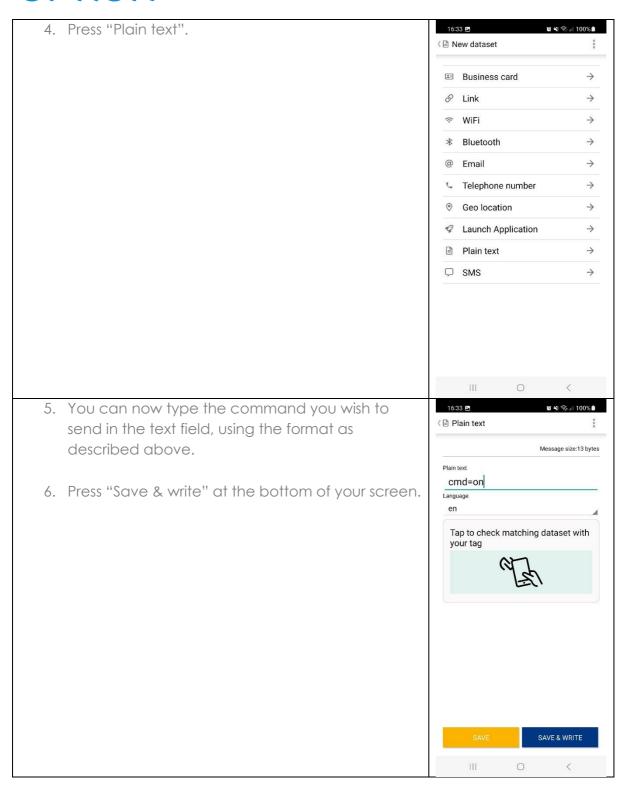
cmd=pinXXXXXXXX,[cmd]

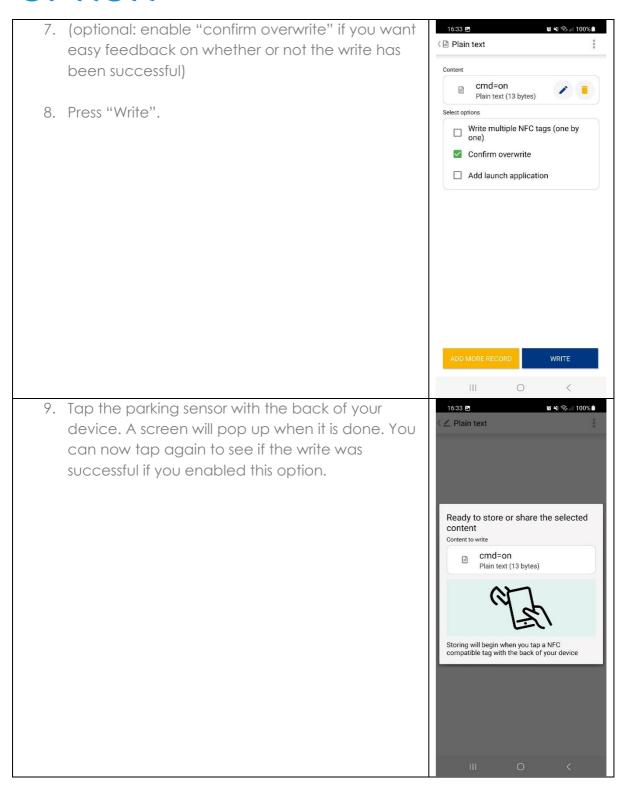
For example, to set the region to EU868 you would send:

"cmd=pin12345678,slreg5"

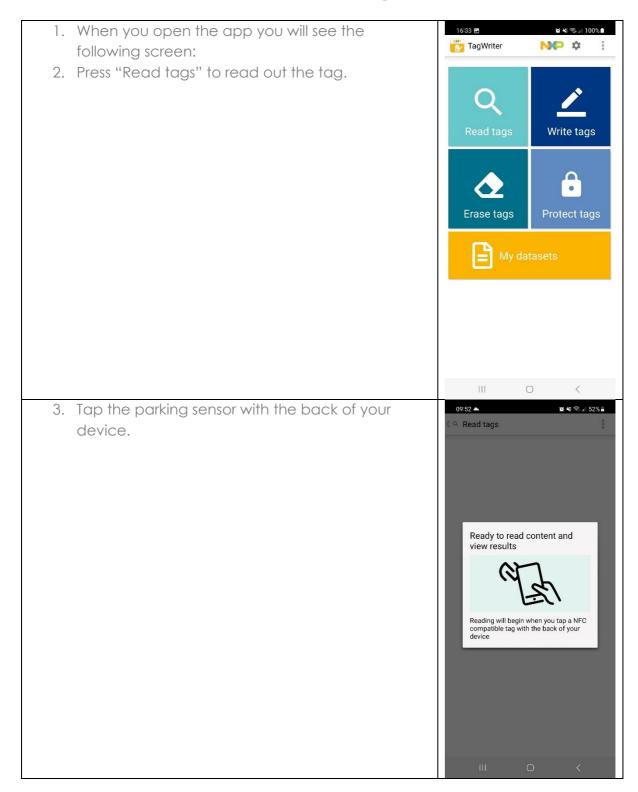
3. How to write the NFC tag

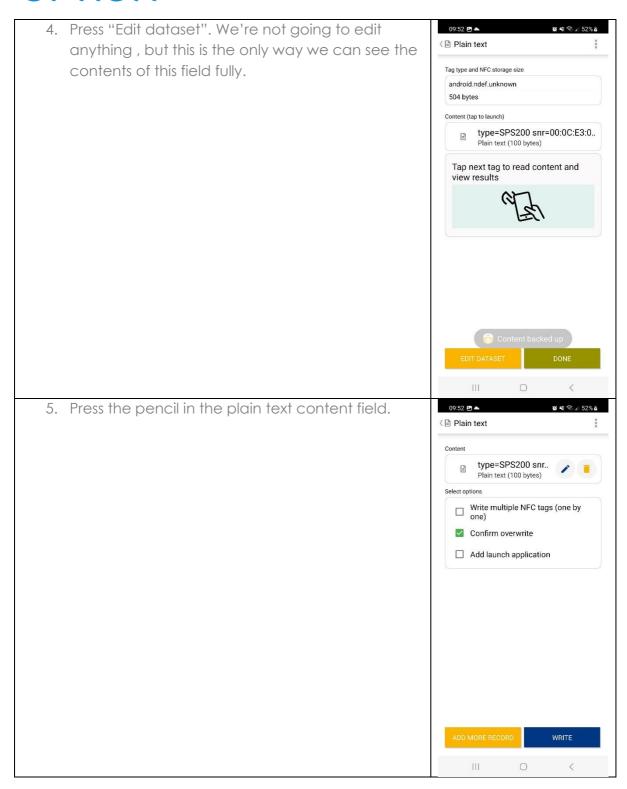






4. How to read the NFC tag





5. How to configure the device

Bellow you can find a step by step guide on what you should do to configure and turn on the device using the commands from section 2.

1. Check the LoRa region by sending the (Plain text command "cmd=glreg". After sending this command, you can read the tag and look for Message size:101 bytes the line "rsp=glregX" to see which region is type=SPS200 currently configured: snr=00:0C:E3:00:00:54:B0:5A fwv=0.0.10 btv=2.0 state=on rsp=glreg5 cmd=none Language Tap to check matching dataset with SAVE & WRITE Ш 2. If the device is configured for the wrong region, (Plain text change it by using the slreg command: Message size:29 bytes cmd=pin12345678,slreg5 Language Tap to check matching dataset with your tag SAVE & WRITE

3. [OPTIONAL BUT RECOMMENDED] Change the pin (Plain text using the newpin command. Make sure that you remember this pin as there is no convenient way Message size:37 bytes of recovering/resetting this pin. Plain text cmd=pin12345678,newpin11111 111 Language Tap to check matching dataset with SAVE & WRITE 4. Turn on the device by using the command (Plain text "cmd=on" Message size:13 bytes Plain text cmd=on Language Tap to check matching dataset with your tag SAVE & WRITE Ш