

# Release Note V0.4

Samstag, 29. Mai 2021 17:59

First step to run iot4pi Lora I-Gate V0.4:

Copy Image with Win32DiskImager to SD Card min. 4GB

Copy wpa\_supplicant.conf to SD with your WLAN Access Data

Look at OLED the IP you are get from DHCP Server

HTTP/HTTPS User and Password is "iot4pi/iot4pi" (please change password)

HTTP/HTTPS GUI implemented (open port 80 and/or port 443 in firewall)



## Lora-APRS Raspberry Pi IGate

### Position Configuration

When a button is pressed at startup -> the GPS position is copied from GPSD to the position

- [Change Position](#)
- [Change to your Geolocation](#)

### Configuration Pages

- [APRS Configuration](#)
- [Change Password](#)
- [Service](#)

### Status Pages

- [Last Heard User](#)
- [Connection State](#)
- [Weather](#)

- The Button "Update current configuration" and "Update Position" do only write changes to conf file, please activate changes by restart iot4pi service Link!
- Change Position (in APRS Format)

**SETUP**

LATITUDE:

LONGITUDE:

[Refresh page](#)

[Change to your geolocation](#)

[Restart IOT4PI service to activate this configuration](#)

[APRS configuration](#)

[Mainpage](#)

- Or change to your Geolocation (Only exactly if there is a GPS on your Browser device)

For getting GPS Data please enable GPS in your Browser and open this Page with HTTPS!

[Position configuration](#)

[Mainpage](#)

- Get GPS Data and Update Position (to position.conf), this Button only is working with HTTPS access, and access to GPS on your mobile!

For getting GPS Data please enable GPS in your Browser and open this Page with HTTPS!

Get GPS Data

LATITUDE (Dez.Grad): 48.3059

LONGITUDE (Dez.Grad): 14.2863

• LATITUDE (APRS): 4818.35N

LONGITUDE (APRS): 1417.18E

Update Position

[Position configuration](#)

[Mainpage](#)

• After Restart of iot4pi Service, I-Gate position has moved

• APRS Setting (please note the tooltip for syntax)

## Current Configuration

### SETUP

APRS_IS_CALL:	NOCALL-11
APRS_IS_PASSCODE:	12345
TRANSMIT:	FALSE ▾
Filter:	-/tm
PHG:	PHG0000
INFO:	Lora iGate
APRS_IS_HOST_1:	euro.aprs2.net
APRS_IS_PORT_1:	14580
APRS_IS_HOST_2:	rotate.aprs.net
APRS_IS_PORT_2:	14580
APRS_IS_HOST_3:	euro.aprs2.net
APRS_IS_PORT_3:	14580
APRS_IS_HOST_4:	rotate.aprs.net
APRS_IS_PORT_4:	14580
LISTEN_IP:	
LISTEN_UDP_PORT:	8080
REPLACE_PATH:	TRUE ▾
SNR:	FALSE ▾
Version:	iot4pi_LoRaGW 0.4
Auth_Timeout:	1800
ShowErrorAtStart:	FALSE ▾
BME280:	FALSE ▾
PARM:	PARM.Temp,Pres,Humi,xxx,yyy,B1,B2,B3,B4,B5,B6,B7,B8
UNIT:	UNIT.deg,C,mbar,Percen,xxx,yyy,on,on,on,on,on,on,on
EQNS:	EQNS.0,0,5,-40,0,1,850,0,0,5,0,0,1,0,0,1,0
BITS:	BITS.11111111,iot4pi

### HopeRF

RxFrequency:	433775000
TxFrequency:	433900000
SF:	12
BW:	125
CR:	1

Update current configuration

[Refresh page](#)

[Restart IOT4PI service to activate configuration](#)

[Show default configuration](#)

[Position configuration](#)

[Mainpage](#)

- Default Configuration (Change only with SSH - pi@OE5PON-LORAGW:~/iot4pi \$ sudo nano default.conf)

## Default Configuration (Read only)

You can make changes here and save them in the current configuration

### SETUP

APRS_IS_CALL:	NOCALL-11
APRS_IS_PASSCODE:	12345
TRANSMIT:	FALSE ▾
Filter:	-t/tm
PHG:	PHG0000
INFO:	Lora iGate
APRS_IS_HOST_1:	euro.aprs2.net
APRS_IS_PORT_1:	14580
APRS_IS_HOST_2:	rotate.aprs.net
APRS_IS_PORT_2:	14580
APRS_IS_HOST_3:	euro.aprs2.net
APRS_IS_PORT_3:	14580
APRS_IS_HOST_4:	rotate.aprs.net
APRS_IS_PORT_4:	14580
LISTEN_IP:	
LISTEN_UDP_PORT:	8080
REPLACE_PATH:	TRUE ▾
SNR:	FALSE ▾
Version:	iot4pi_LoRaGW 0.4
Auth_Timeout:	1800
ShowError.AtStart:	FALSE ▾
BME280:	FALSE ▾
PARM:	PARM.Temp,Pres,Humi,xxx,yyy,B1,B2,B3,B4,B5,B6,B7,B8
UNIT:	UNIT.deg,C,mbar,Percen,xxx,yyy,on,on,on,on,on,on,on
EQNS:	EQNS.0,0.5,-40,0,1,850,0,0.5,0,0,1,0,0,1,0
BITS:	BITS.11111111,iot4pi

### HopeRF

RxFrequency:	433775000
TxFrequency:	433900000
SF:	12
BW:	125
CR:	1

[Cancel - Back to current configuration](#)  
[Refresh default configuration](#)  
[Mainpage](#)

- Passwort Change (only GUI) user/default Password: iot4pi iot4pi (please change password)
- If Password lost, you can set with Putty (htpasswd -bc .htpasswd iot4pi <new password>)

**Melden Sie sich an, um auf diese Website zuzugreifen.**

Autorisierung angefordert von https://10.0.0.10

Benutzername

Kennwort

- Restart/Reboot Button (only working if iot4pi is running, not while startup)

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- Last Heard

- Weather (Example no BME280 connected)

- Connected to APRS\_IS IP or Not Connected) and Link to APRS\_IS Dashboard

Bug fixed:

Transmitting Messagepackets now possible

APRS-IS Port now working

RSSI/SNR only add on Positionpackets "!:<Pos>"

Some minor Bug fixed

#### New in Release:

HTTP/HTTPS Configuration

Last Heard List

Default configuration

4 APRS-IS Host/Port settings (if any goes offline)

Get Geolocation from Browser (use Mobile Device with GPS and HTTPS)

APRS Wetterframe BM280

APRS Telemetriedaten BM280

APRS\_IS TCP keepalive (Connectiontimeout 20min)

RSSI/SNR can now switched off

Lora\_APRS\_gateway\_6.py upgrade to Python3.7

#### Hints:

Please make a space between Softwarename and Softwareversion

Version=iot4pi\_LoRaGW 0.4

#### Open Issue's:

Korrektur Offset für Temperatur und Luftdruck

Packet-Counter suchen und auf Telemetrie legen

Tocall Thema

Last Heard Liste für Message senden

73 Andreas OE5PON