



How to Pair Trak Smart Tag with Teltonika Devices

V0.2

Summary

- This guide is compatible with all Teltonika GPS tracking devices equipped with Bluetooth functionality.
- The pairing procedure has been demonstrated using the Teltonika FMB920 device.
- The Teltonika device identifies Trak Smart Tag devices using BLE beacon broadcasts.

Trak Smart Tag

TRAK SMART TAG broadcasts BLE beacon data for identification and monitoring purposes as below;

- Fixed UUID structure
- Broadcast Type
- Fixed Major value
- Fixed Minor value

TRAK SMART TAG can generate different broadcasts according to event/status.

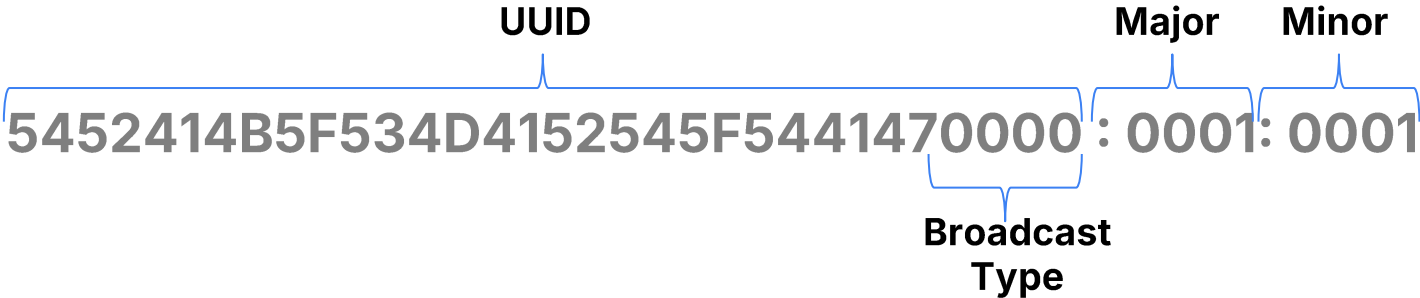
- Normal Beacon Broadcast
- Button Press Broadcast
- Low Battery Broadcast

Only the Broadcast Type section changes according to the event.



Broadcasting

UUID structure is fixed for TRAK SMART TAG
Only the Major and Minor values are the unique ID values for each device.



Broadcast	Explanation
0000	Normal Beacon Broadcast (5sec interval)
0001	Button Activation Broadcast (When the button is pushed)
0009	Low Battery Broadcast (When the battery level is less than 25%)

How to Pair with Teltonika

Teltonika.Configurator 1.8.3.B.FM64_R.153

TELTONIKA

Load from device Save to device Update firmware Reset configuration

Load from file Save to file Read records Reboot device

Status

Security

System

GPRS

Data acquisition

SMS \ Call Settings

SMS events

GSM operators

Features

Accelerometer Features

Auto geofence

Manual geofence

Trip \ Odometer

Bluetooth

Bluetooth 4.0

Beacon list

I/O

OBD II

Beacon Settings

Beacon Settings

Beacon detection

Disabled All

Configured

Beacon mode

Simple Advanced

Beacon record

On change Periodic

Beacon record priority

Disable Low priority

High priority

Record period on move (s) 10

Record period on stop (s) 10

Beacon clear timeout (s) 10

Beacon list

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Import CSV

Export CSV

EYE Beacon Settings

EYE Beacon

Beacon detection

Disabled All

Configured

Open Teltonika Configurator and Navigate to:

- Beacon List
- Beacon Settings
- Beacon Detection

Set Beacon Detection mode to:

- ALL

In ALL mode, the Teltonika device scans and lists all nearby BLE beacons within range.

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OBD II

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Reboot device

Device Info

Device Name

Last Start Time

Power voltage

Ext Storage (used/total)

Battery Voltage

Firmware Version

RTC time (UTC)

Device IMEI

Device Uptime

Internal Battery Status

FMB920

19.05.2026 15:49:46

12018 mV

58 / 122 MB [Format](#)

4046 mV

04.00.00 Rev:13

19.05.2026 16:14:15

350317176751646

00:24:30

Charging 79%

GNSS Info

GSM Info

I/O Info

Beacons

Maintenance

Visible Beacons

Type	ID	Rssi	Battery Voltage	Temperature
	5452414B5F534D4152545F544147000000010001	-51 dBm	Not available	Not available
	5452414B5F534D4152545F544147000000010002	-65 dBm	Not available	Not available

Detected beacons can be monitored under:

- Status
- Beacons



How to Pair with Teltonika

Unique Major and Minor information of TRAK SMART TAG can be found printed on the bottom edge of the tag.

You will see TRAK SMART TAG with the given exact UUID and the unique Major and Minor data on Teltonika Configurator. Copy this ID information on the configurator to use in next steps.

Example:

- Device Label → MAJ:0001 / MIN:0001
- Detected Beacon → ...0001:0001

Teltonika Configurator 1.8.3.8.FM64_R.153

Device Info

Device Name	Last Start Time	Power voltage	Ext Storage (used/total)	Battery Voltage
FM8920	19.05.2026 15:49:46	12018 mV	58 / 122 MB Format	4046 mV

GNSS Info | GSM Info | I/O Info | **Beacons** | Maintenance

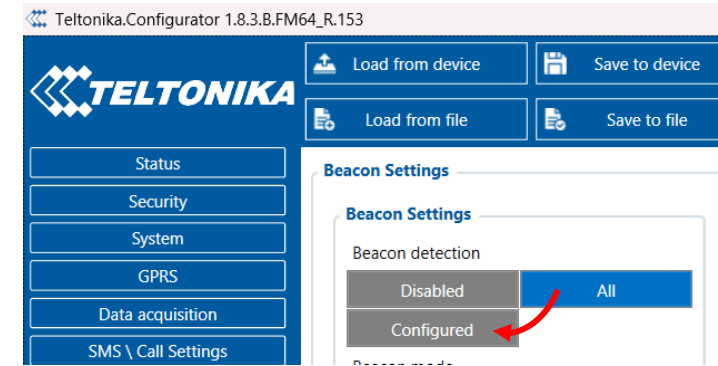
Visible Beacons

Type	ID	Rssi	Battery Voltage	Temperature
	5452414B5F534D4152545F544147000000010001	-51 dBm	Not available	Not available
	5452414B5F534D4152545F544147000000010002	-65 dBm	Not available	Not available



How to Pair with Teltonika

When you detect the TRAK SMART TAG on the Teltonika Configurator, go back to Beacon Settings and switch Beacon detection from All to Configured



Paste the ID information you have copied on the previous step to Beacon List and add **alternatives for each broadcast type**.

Beacon list

1	5452414B5F534D4152545F5441470000:0001:0001
2	5452414B5F534D4152545F5441470001:0001:0001
3	5452414B5F534D4152545F5441470009:0001:0001
4	
5	

Configured mode allows the Teltonika device to monitor only selected beacon devices.

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Beacon list

I/O

OBD II

Load from device

Save to device

Update firmware

Reset configuration

Load from file

Save to file

Read records

Reboot device

Beacon Settings

Beacon Settings

Beacon detection

Disabled

All

Configured

Beacon mode

Simple

Advanced

Beacon record

On change

Periodic

Beacon record priority

Disable

Low priority

High priority

Record period on move (s)

10

Record period on stop (s)

10

Beacon clear timeout (s)

10

Beacon list

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

5452414B5F534D4152545F5441470000:0001:0001

5452414B5F534D4152545F5441470001:0001:0001

5452414B5F534D4152545F5441470009:0001:0001

Import CSV

Export CSV

Example:

Broadcast Type

Major

Minor

5452414B5F534D4152545F5441470000:0001:0001

5452414B5F534D4152545F5441470001:0001:0001

5452414B5F534D4152545F5441470009:0001:0001

Broadcast	Explanation
0000	Normal Beacon Broadcast (5sec interval)
0001	Button Activation Broadcast (When the button is pushed)
0009	Low Battery Broadcast (When the battery level is less than 25%)

Important!
All possible beacon broadcasts should be added manually to the Beacon List.
Beacon information must be entered using the following format:
UUID:MAJOR:MINOR

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9

Recommended Configuration

Recommended settings:

- Beacon Detection → Configured
- Beacon Mode → Simple
- Beacon Record → Periodic
- Beacon Record Priority → High Priority

After configuration is completed:

- Press Save to device

The screenshot shows the Teltonika Configurator 1.8.3.B.FM64_R.153 interface. The left sidebar contains a menu with the following items: Status, Security, System, GPRS, Data acquisition, SMS \ Call Settings, SMS events, GSM operators, Features, Accelerometer Features, Auto geofence, Manual geofence, Trip \ Odometer, Bluetooth, Bluetooth 4.0, Beacon list (highlighted), I/O, and OBD II. The main area displays the 'Beacon Settings' configuration page. At the top of the main area are four buttons: 'Load from device', 'Save to device', 'Load from file', and 'Save to file'. The 'Beacon Settings' section includes the following options:

- Beacon detection:** A group box containing two buttons: 'Disabled' and 'Configured' (selected).
- Beacon mode:** A group box containing two buttons: 'Simple' (selected) and 'Advanced'.
- Beacon record:** A group box containing two buttons: 'On change' and 'Periodic' (selected).
- Beacon record priority:** A group box containing two buttons: 'Disable' and 'High priority' (selected).
- Record period on move (s):** A numeric input field with the value '10' and up/down arrows.
- Record period on stop (s):** A numeric input field with the value '10' and up/down arrows.
- Beacon clear timeout (s):** A numeric input field with the value '10' and up/down arrows.

Verification of Pairing

After saving the configuration:

Navigate to:

-Status

-Beacons

Only the configured Trak Smart Tag device should appear in the beacon list.

5452414B5F534D4152545F544147**0000** will always appear on the list when the tag is nearby the Teltonika device

When you push the button, 5452414B5F534D4152545F544147**0001** will appear on the list, when you push the button. It will disappear after a while

5452414B5F534D4152545F544147**0009** will not appear on the list till the battery discharges

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Device Info

Device Name	Last Start Time	Power voltage	Ext Storage (used/total)	Battery Voltage
FMB920	19.05.2026 15:49:46	12018 mV	58 / 122 MB Format	4046 mV
Firmware Version	RTC time (UTC)	Device IMEI	Device Uptime	Internal Battery Status
04.00.00 Rev:13	19.05.2026 16:14:15	350317176751646	00:24:30	Charging 79%

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Visible Beacons

Type	ID	Rssi	Battery Voltage	Temperature
	5452414B5F534D4152545F544147000000010001	-51 dBm	Not available	Not available
	5452414B5F534D4152545F544147000000010001	-65 dBm	Not available	Not available
	5452414B5F534D4152545F544147000900010001	-70 dBm	Not available	Not available

Important Note

- If only the currently visible beacon broadcast is configured, some device events may not be detected correctly.
- For reliable operation, all possible TRAK SMART TAG broadcasts should be added into the Beacon List.



Thank you!

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