

BLE-TAG Getting Started Guide

Usage Summary

1. Reader performs BLE discovery commands to obtain tag information (UUID and RSSI).
2. Each scan runs for approximately 8 seconds and returns the UUID and RSSI of all tags within range.
3. The Reader sends to the MQTT Broker in the following format every 10 seconds:

```
<schema_ver>,<reader_id>,<seq>,<timestamp>,<count>[,<UUID>
,<RSSI>]
```

For example, there are three sets of tags below:

```
V1.0,T00:80:E1:AD:47:16,0,20260418170510,3,0001803494c4f4
74943544543480000,-50,0001803494c4f474943544543480001,-51
,0001803494c4f474943544543480002,-52
```

For example, there is no tag below:

```
V1.0,T00:80:E1:AD:47:16,1,20260418170520,0
```

4. The Gateway's ID (if used) is not required because the gateway is a bridge only and does not aggregate data. All data is directly sent by the reader.
5. The Reader's ID uses T+MAC address.
6. Seq is from 0 to 65535 and repeats after a rollover.
7. A Gateway is optional. If not used, the reader will connect directly to a router (using WiFi 5GHz is highly recommended since BLE operates at 2.4GHz).
8. Data can only be uploaded to MQTT Broker normally after the system completes NTP timing.

Button and LED Description of Tag

The power button in the middle is the key.

Key	LED	Function	Remarks
Press and hold for 3 seconds while working	LED flashes 1 time	power off	
Press and hold for 3 seconds while turned off	LED flashes 3 times	power on	After battery installation, it defaults to the power on state.



9. Reader Configuration



Use WF88-ConfigureToolPro-V1.7.9 or later for parameter setting, note to set “PubTopic” according to the format shown in the following figure.

