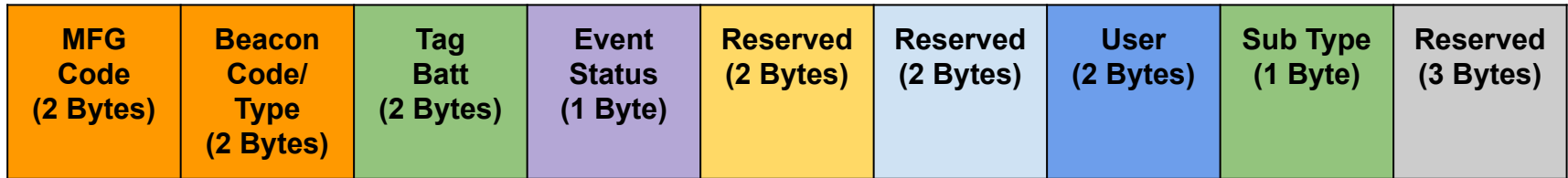
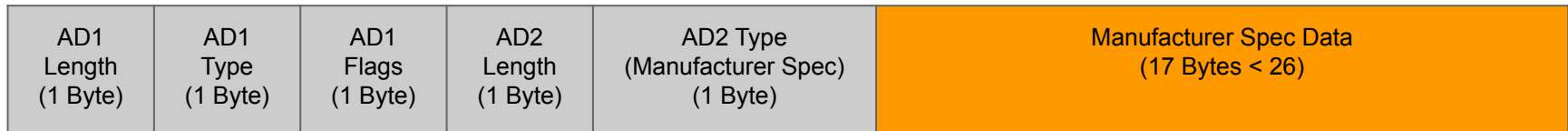


INGICS

iBS02 Payload Format

Jun, 2020
rev. 2

Sensor Tag Packet (iBS02)



| | |
|---------------------------|--|
| AD1 (Length, Type, Flags) | BLE Advertising Flags |
| AD2 Length | depends on payload length |
| AD2 Type | fixed to 0xFF (for manufacturer) |
| Manufacturer Spec Data | manufacturer defined payload (currently as 0x000D) |

example:

\$GPRP,EAC653D3AA8D,CCB97E7361A4,-44,02010612FF0D0083BC290110FFFFFFFF000001000000

LF

Sensor Tag Packet(iBS02)

| | | | | | | | | |
|------------------------------|---------------------------------------|------------------------------|---------------------------------|------------------------------|------------------------------|--------------------------|-----------------------------|------------------------------|
| MFG Code (2 Bytes) | Beacon Code/ Type (2 Bytes) | Tag Batt (2 Bytes) | Event Status (1 Byte) | Reserved (2 Bytes) | Reserved (2 Bytes) | User (2 Bytes) | Sub Type (1 Byte) | Reserved (3 Bytes) |
|------------------------------|---------------------------------------|------------------------------|---------------------------------|------------------------------|------------------------------|--------------------------|-----------------------------|------------------------------|

* Endianness: little endian

| Field | Description | Field Offset |
|----------------------|--|--------------|
| MFG Code | Manufacturer vendor code, fixed | |
| Beacon Code and Type | Magic Code to identify packet format, fixed to 0xBC83 | |
| Tag Batt | batt voltage of tag in 0.01v unit | |
| Event Status | 8bits for 8 input: PIR: bit4(0x10), IR: bit5(0x20), Ext In: bit6 (0x40) | |
| User | Configurable by user through App | |
| Subtype | Used as sub model, type: 0x01: PIR, 0x02: IR, 0x04: iBS02M2 | |

example:

\$GPRP,EAC653D3AA8D,CCB97E7361A4,-44,02010612FF0D0083BC290110FFFFFFFF000001000000

Reader Output Example(iBS02)

example:

\$GPRP,EAC653D3AA8D,CCB97E7361A4,-44,02010612FF0D0083BC290110FFFFFFFF000001000000

→ **iBS02PIR object detected**

\$GPRP,EAC653D3AA8D,CCB97E7361A4,-44,02010612FF0D0083BC290100FFFFFFFF000001000000

→ **iBS02PIR object not detected**

\$GPRP,EAC653D3AA8A,CCB97E7361A4,-44,02010612FF0D0083BC290120FFFFFFFF000002000000

→ **iBS02IR proximity detected**

\$GPRP,EAC653D3AA8A,CCB97E7361A4,-44,02010612FF0D0083BC290100FFFFFFFF000002000000

→ **iBS02IR proximity not detected**

\$GPRP,EAC653D3AA8E,CCB97E7361A4,-44,02010612FF0D0083BC290140FFFFFFFF000004000000

→ **iBS02M2 external input triggered**

| VER | DATE | CHANGES | NOTE |
|-----|-----------|----------------------------|------|
| 1 | Apr, 2017 | Initial release | |
| 2 | Jun, 2020 | Add iBS02M2 payload format | |