Firmware Interface Document

Model No.: E6-6001A

Version: V1.0.0

Date: 8th April 2017

DESCRIPTION

The document is only used for the 2nd development such as iOS and Android application based on the standard E6 light sensor beacon hardware.

BROADCAST DATA FORMAT

Offset	Length	Type	Data	Details
0	1	Data Length	2	/
1	1	Flag data type	1	/
2	1	Flag data	0x06	/
3	1	Data Length	3	/
4	1	Complete list of 16-bit Service UUIDs	0x03	/
5	2	UUID data	0xE1FF	(little-endian) 0xFFE1
7	1	Data Length	16	/
8	1	Service data	0x16	/
9	2	UUID data	0xE1FF	(little-endian) 0xFFE1
11	1	Frame Type	0xA1	0xA1
12	1	Product Model	0x02	/
13	1	Battery level	0x64	Battery level is 100%
14	1	Detected data(Light Sensor)	0x00	Refer to the definition
15	6	Mac address	0xB0000000A1EE	(little-endian) AC:23:3F:00:00:0B

Note：

      1. The format is only a single broadcasting format without any scan-response packet;

      2. The format can be customized / changed as customer's requirement.
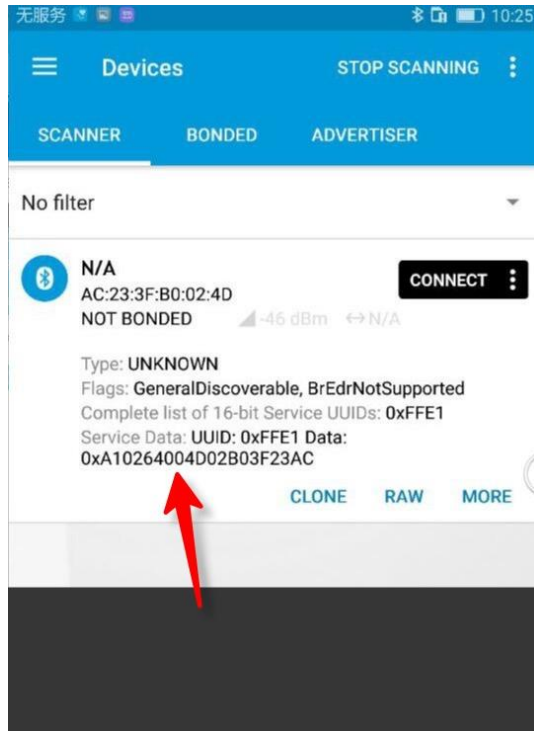
Light Sensor Detected Data Definition

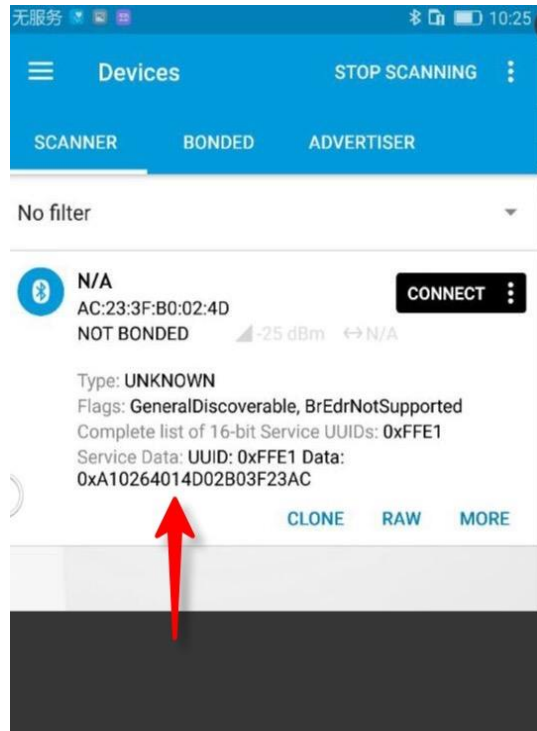For the byte of light detected data, the bit0 has been defined as below.

1) bit0=0, it means the light sensor beacon doesn't detect the light and move;

2) bit0=1, it means the light sensor beacon detected the light and beacon moved;

The bit1 to bit 7 are reserved.

Screenshots

| 0x00 (bit0=0) | 0x01(bit0=1) |

1) The App name is nRF Connect, iOS and Google Play are available to download;
2) The OS must be Android 4.3 / iOS 7.0 and above, the iOS can't display the MAC address;

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