MokoBeacon (for User)

ABOUT

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APP SDK



MokoBeacon User Manual

Please use the app—MokoBeacon published by Moko Technology to configure Moko iBeacon series products (We call these products as "MkiBeacon").



1. Turn ON/OFF MkiBeacon

Note: This step is suitable for products with button.

Turn ON MkiBeacon:

- 1. Press the button and keep holding for 2 seconds;
- 2. The red led flashes fast for several times and then turns off, it means that the beacon is on and starts broadcasting.

Turn OFF MkiBeacon:

- 1. Press the button and keep holding for 2 seconds;
- 2. The red led lights on 2 seconds and then turns off, it means that the beacon is off and s tops broadcasting.

2. Scan and Connect to MkiBeacon

C	Devices(6)		i
Filter by device	name or MAG	Caddress	
(∭)↓	(major) 🗸	minor)↓
S00000			
Rssi:-56	Major:0	Minor:0	
Immediate	CONN:NO		
Tx:0dBm	MAC:CB:58:A	9:35:6B:17	
3-Axis:X:C0FF;Y:D0FF;Z:D003			
UUID:E2C56DB5-D	FFB-48D2-B060-	D0F5A71096E	0
MkiBeacon_000	000		
Rssi:-75	Major:0	Minor:0	
Immediate	CONN:YES		
Tx:-4dBm MAC:C9:4E:5F:CF:99:DC			
UUID:E2C56DB5-DFFB-48D2-B060-D0F5A71096E0			
wandl00000			
Rssi:-78	Major:0	Minor:5	
Immediate	CONN:YES		
	MACODRIOLO	4-C9-0D-CE	
Tx:4dBm	IVIAC-DB-91-C	4.00.00.01	

- When user turns on the mobilephone' s Bluetooth, the APP can search nearby MkiBeac on devices. APP can sort the scanned device via signal strength, Major or Minor value.
- Clicking the device that needs to be configured, there will be a dialog box asking you to enter password. When the user enters the correct password, he can enter into the configuration interface to configure parameters.
- The device will disconnect automatically if the user does not have any operation within 1 minute. User can click the **DISCONNECT** on the top right corner of the interface to re connect the device.

C Devices	Parameters	DISCONNECT	
Battery percentage		89	
UUID	E2C56DB5-[DFFB-48D···· >	

3. Configure MkiBeacon Parameters

C Devices	Parameters	DISCONNE	
Battery percenta	age	89	
UUID	E2C56DB5-[DFFB-48D…	
MAJOR		0	
MINOR		0	
RSSI@1m		-120dBm	
Transmission Po	ower	1	
Broadcasting In	terval	10	
Device ID		00000	
MAC Address	CB:58	:A9:35:6B:17	
iBeacon Name		S	
Modify Passwor	ď		
3-Axis Accelero	meter		
Device Informat	ion		
Connectable			D
Power Off			D
DFU			

Readable and configurable device parameters

- UUID
- MAJOR
- MINOR
- RSSI@1m
- Transmission Power
- Broadcasting Interval
- Device ID
- iBeacon Name
- Modify Password
- 3-Axis Accelerometer
- Connectable
- Power Off
- DFU

Readable and non-configurable device parameters

-	Battery percentage
-	MAC Address
-	Device Information
-	RSSI curve

Note: The IOS APP does not have the parameter information of the "MAC Address" and "DFU" columns. The Android APP does not have the parameter information of the "SSI curve" column.

3.1 Configure UUID



- Default UUID: E2C56DB5-DFFB-48D2-B060-D0F5A71096E0
- User can enter the UUID values that meet the requirements of the standard field in the i nput box(16bytes).

3.2 Configure Major and Minor



• User writes decimal digits to configure Major and Minor. The value ranges from 0 to 655 35, corresponding to hexadecimal 0x0000 to 0xFFFF.

3.3 Configure Measured Distance (RSSI@1m (https://git hub.com/1m))



- RSSI—Received Signal Strength Indication
- RSSI (https://github.com/1m)@1m (https://github.com/1m) refers to Receiver device rec eives the signal strength in 1 meter. The value accords with the actual test results. Norm ally we don' t suggest that user configure this value.

3.4 Configure Transmission Power



MokoBeacon (for User)

Please Select 登录/注册 (/index.php?s=/Home/User/login) 关于ShowDoc (https://www.showdoc.cc/help)



- The Transmission power of the device is determined by the chip.
- Transmission Power can be configured as one of the following data: -40dBm, -20dB m, -16dBm, -12dBm, -8dBm, -4dBm, 0dBm, 4dBm.

3.5 Configure Broadcasting Interval

< Bro	adcasting Interval		
	Please Select		
100ms	200ms	300ms	
400ms	500ms	600ms	
700ms	800ms	900ms	
	1000ms		
Input: 10 units:100ms			
Tip:iBeacon is easy to be scanned and connected if the broadcast time is short, but power consumption is also higher. Reasonable range of 1~100.After modifying the parameter, click the upper right button to save.			

- The interval for the device to broadcast iBeacon information.
- The adjustable interval of Broadcasting Interval is 100ms, and broadcasting Interval rang es from 100ms to 10s.

3.6 Modify Device ID



• Device ID, ranges from 00000 to 99999.

3.7 iBeacon Name



• Note: The maximum length of the device name without a 3-Axis accelerometer is 10 cha racters.

Device name with 3-Axis accelerometer has a maximum length of 4 characters

3.8 Modify Password

K Modify Password	-
New Password	
New Password	
Tip: Password must be 8 characters. After modifying the parameter, click the upper right button to save.	

- Default password: "Moko4321" .
- Length of password: 8 characters(ASCII visible characters).
- Users need to enter the same contents twice to modify password.

3.9 Configure Connection Mode

Connectable

- Default connection mode: Connetable.
- When you want to use the APP to modify the MkiBeacon to a non-connectable state, th e following prompt window will pop up;

Warning!

Are you sure to make device disconnectable?

Cancel

OK

• When MkiBeacon is in disconnectable status, the device can't be configured. If you ne ed to recover the connectable mode, you should do as the follow steps (device in the di sconnectable status).

Long press the button for 3 seconds to turn off MkiBeacon;
Long press the button for 3 seconds to turn on MkiBeacon;
The device will be in connectable status after being restarted within 1 minute; User can connect to the device and change the connection mode to connectable status.

Warning: If the device does not have a button, it cannot be modified to be connectable.

3.10 Power Off

• When the user wants to use the APP to shut down the device, or MkiBeacon does not s upport button shutdown, click the blue button on the right side of "Power Off" to sh ut down the device.

Power Off

• The APP will pop up the following prompt window.

Warning!

Are you sure to turn off the device?Please make sure the device has a button to turn on!

3.11 Device Information

C Device Information			
Manufacture	MOKO TECHNOLOGY LTD.		
Product Model	HXiBeacon		
Production Date	2019/01/17		
MAC Address	CB:58:A9:35:6B:17		
Chip Model	nRF52832		
Hardware Version	H52V1.0		
Firmware Version	V2.0.5		
Software Version	MkiBeacon		
Running Time	10D18h29m12s		

- Manufacture
- Product Model
- Production Date
- MAC Address
- Chip Model
- Hardware Version
- Firmware Version
- Running Time

Revision History

Revision	Description	Approved	Date
V1.0	Initial Release	Kevin	2018.09.03
1/1 1	Madify the interface and improve the description	Hannah	2010 04 01