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KBeacon App Instruction

Version	Date	Change Description	Author
V1.0	2017/11/12	Initial draft for KBeaconTools	Adam
V1.1	2018/02/23	Name updating	Adam
V1.2	2018/03/08	Updating iBeacon/Eddystone URL/Eddystone UID/Eddystone TLM configuration	Adam
V1.2	2018/03/27	Updating RSSI value setting	Adam
V2.0	2018/10/02	App Interface updating	Claire
V3.0	2019/10/15	Name updating&App Interface updating	Claire

Revision History

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1. Download KBeacon App

Download the App 'KBeacon' from iOS App Store or Android Google Play or scan the QR code below to install.

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KBeacon KBeacon configuration tools	GET	KBeacon KKM Co.,Ltd.
Image Date Table Party Party	Note Note Note Note	Image: Angle of the second
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Minimum requirements

A mobile phone with *Bluetooth* 4.0 support is needed. For Android devices, Android version 5.1 or newer. For iOS devices, iOS version 10.0 or newer.

2. How to connect KBeacon device to KBeacon App

Kindly note: Please make sure your KBeacon device is with battery already. 'KBeacon' App currently only works with KBeacon model K21, K3, K8

Enable your smart phone's Bluetooth and run the App 'KBeacon'.

2.1 Turn on KBeacon

• KBeacon with button (Including model K1/K11/K21/K5)

The factory setting of KBeacon with button is OFF. Long press the button(till the LED light starts flashing) to turn KBeacon ON.

• KBeacon without button (Including model K51/K3/K8)

The factory setting of KBeacon without button is ON.

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2.2 Connect KBeacon

Let's use a K21 (MAC Address: DD330A013476) to demonstrate:



While KBeacon is ON, KBeacon App can scan the device's Bluetooth signal, then the device will be displayed on the device list page.

Find the corresponding KBeacon on the App according to its MAC address, Tap it, it will start connecting and jump to the configuration page (see pictures below).

		Devices	Stop
		Devices	Stop
Tap to ed	dit filter		\sim
KBeaco	n_35576		-74dBm
Mac:N/A	Battery level:		3050mV >
	Temperature: Adv count:		23°C 17640260
KBeaco	n 8202		127dBm
Mac:N/A	1_0202		Mac:N/A
TLM	Battery level: Temperature:		3050mV > 33°C
	Adv count: Time since		17377060 20day 05:09:45
KBeaco	n_6510		127dBm
Mac:N/A	D. H		Mac:N/A
TLM	Temperature:		27°C
	Time since		20day 12:31:14
KBeaco	n_4656		-76dBm
Mac:N/A	Battery level:		2378mV >
. 2	Temperature: Adv count:		36°C 28466290
	Time since		331day 02:35:18
KBeaco	n_13430		-23dBm
iBeacon	UUID:		N/A>
	Major: Minor:		1
DD2204	RSSI@1m		N/A
Mac:N/A	19364		-//dBm Mac:N/A
TLM	Battery level:		3050mV >
	Adv count:		26°C 7066920

• If there are too many KBeacon devices shown on the device list, but you want to search certain one KBeacon easily, try to filter name or filter rssi.

		Devices	
Tap to e	dit filter		^
Filter na	ame		
Filter rs	si:	-0-	-40dBm
	Time since		4day 17:25:55
UID	NamespaceID: InstanceId: RSSI@0m	0x6B6B6D63 0x	6E2E636F6D05 00000000008 -13dBm >
KSensor	Battery level: Temperature: Acc:		3019mV 27°C N/A
iBeacon	UUID: Major: Minor: RSSI@1m		N/A 50 12 N/A
URL	Url: RSSI@0m	http://v	www.kkmcn.com -13dBm
KBeaco	n_13426		-98dBm
Mac:N/A		B	attery:100%
iBeacon	UUID: Major: Minor:		N/A > 1 1

Put the KBeacon device close to your phone(within 10cm range). Tap 'Filter rssi' and set the rssi to - 30~-40dBm, then only the KBeacon next to your phone can be scanned and shown on the device list page.

3. How to configure KBeacon

KBeacon supports five protocals :

- iBeacon
- Eddystone URL
- Eddystone UID
- Eddystone TLM
- KSensor

3.1 How to configure iBeacon and Eddystone

(Take iBeacon as an example)

Tap: Beacon Type—> iBeacon—> Save—> Return

<	Details	Save
System Info		>
Beacon Name	K	Beacon_13430 >
Adv Interval		1000 >
Connectable		ves >
Ty Power		,
Monguro Dowor		50 >
Measure Power		-59 /
Beacon Type		iBeacon >
iBeacon UUID 77	77772E-6B6B-6D63	-6E2E-636F >
iBeacon MajorID		1 >
iBeacon MinorID		1 >
Modify password		******* >

UUID, Major ID, Minor ID can also be configured in the App.

Eddystone URL, UID, TLM can be modified by above same steps

3.2 How to configure KSensor

KSensor is KKM self-defined protocal, it includes battery level and temperature sensor and acceleration sensor information.

System Info > Beacon Name KBeacon,13430 > Adv Interval 1000 > Connectable yes > Tx Power 0 > Measure Power -59 > Beacon Type iBeacon >
Beacon Name KBeacon,13430 > Adv Interval 1000 > Connectable yes > Tx Power 0 > Measure Power -59 > Beacon Type iBeacon >
Adv Interval 1000 >> Connectable yes >> Tx Power 0 >> Measure Power -59 >> Beacon Type iBeacon >>
Connectable yes > Tx Power 0 > Measure Power -59 > Beacon Type iBeacon >
Ksensor Measure Power -59 > Beacon Type iBeacon >
Measure Power -59 > Beacon Type iBeacon >
Beacon Type iBeacon >
iBeacon UUID 7777772E-6868-6D63-6E2E-636F >
iBeacon MajorID 1 >
iBeacon MinorID 1 >
Modify password

Tap: Beacon Type-> KSensor-> Save-> Return

After the parameters that need to be changed are modified, Tap: Save—> Ok—> return, and the all the parameters can be shown on the scan list.



4. Save as template and load template

If a batch of KBeacon devices are to be configured with the same parameters, 'SAVE AS TEMPLATE' and 'LOAD TEMPLATE' functions can help saving a lot of time.

Step 1: Configure one KBeacon and Save template

← Beacor	n Detail	SAVE
Beacon Name	KBeacon_13430	>
Adv Interval	1000	>
Connectable	yes	>
Tx Power	0	>
Measure Power	-59	>
Beacon Type	iBeacon	>
iBeacon UUID	7777772E-6B6B-6D63-6E2E-63 6F6D000001	>
iBeacon MajorID	1	>
iBeacon MinorID	1	>
Modify password	*******	>
SAVE AS TEMPLATE		:

Step 2: For the rest of the KBeacon in the same batch, load template to every one of them.

← Beacon	Detail	SAVE
Beacon Name	KBeacon_13430	>
Adv Interval	1000	>
Connectable	yes	>
Tx Power	0	>
Measure Power	-59	>
Beacon Type	iBeacon	>
iBeacon UUID	7777772E-6B6B-6D63-6E2E-63 6F6D000001	>
iBeacon MajorID	1	>
iBeacon MinorID	1	>
Modify password	*******	>
SAVE AS TEMPLATE	LOAD TEMPLATE	$\mathbf{>}$

5. Unconnectable mode

KBeacon can be set unconnectable. Tap: Connectable-> no-> Save.

<	Details	Sav	ve
System Info			>
Beacon Name	KBe	acon_13430	>
Adv Interval		1000	>
Connectable		yes	>
Tx Power		0	>
Measure Power		-59	>
Beacon Type		iBeacon	>
iBeacon UUID 7777	772E-6B6B-6D63-6	8E2E-636F	>
iBeacon MajorID		1	>
iBeacon MinorID		1	>
Modify password		*******	>

Please note: If KBeacon is set to be unconnectable, this KBeacon signal can be scanned, but it will not be able to be connected and configured. (in case other people connect KBeacon and configure the parameter without permission).

Question: How can I configure KBeacon again if it was set to be unconnectable?

- For KBeacon with button: click the button or re-install battery.
- For KBeacon without button: Re-install battery

6. System Info

'System Info' describes the detailed information of the connected KBeacon device.

<	Details	
System Info		>
Beacon Name	к	Beacon_13430 >
Adv Interval		1000 >
Connectable		yes >
Tx Power		0 >
Measure Power		-59 >
Beacon Type		iBeacon >
iBeacon UUID 777	77772E-6B6B-6D63	-6E2E-636F >
iBeacon MajorID		1 >
iBeacon MinorID		1 >
Modify password		******* >

7. Remark

Parameters such as Beacon Name, Adverstising Interval, Tx power etc can be easily configured on KBeacon App. These parameters configuration won't be demonstrated here. If there are any questions, please feel free to contact KKM.

Thank you for your support.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the

receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the

following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept

any interference received, including interference that may cause undesired operation.