



Feasycom BeaconParameterGenerate User Guide

Table of contents

1	Features	2
2	UI	3
3	How to Generate Parameters Quickly	4
4	Custom Device Name Generation	5
5	Generating Broadcast Interval, Transmit Power, and PIN Code Parameters	6
6	Generating iBeacon Parameters	7
7	Cases	9
7.1	Case 1	9
7.1.1	Case Requirements	9
7.1.2	Requirement Analysis	9
7.1.3	Tool Configuration	9
7.1.4	Parameter Generation	10
7.2	Case 2	10
7.2.1	Case Requirements	10
7.2.2	Tool Configuration	11
7.2.3	Parameter Generation	11
8	Appendix	12
8.1	Download PDF	12

[中文版]

Version	Date	Author
2.0	2025-09-09	Oran

Shenzhen Feasycom Co., Ltd.

Chapter 1

Features

- **Easy to Operate:** The Beacon Parameter Generation Tool simplifies the process of creating required Beacon parameters for customers, eliminating the need to delve into technical details.
- **Custom Parameter Settings:** Users can customize parameters such as UUID, Major, and Minor according to their specific needs.
- **Improved Work Efficiency:** The use of this tool significantly reduces the time and effort required to create parameters, thereby markedly improving work efficiency.
- **Bulk Generation and Export:** The tool's bulk generation function allows users to create multiple Beacon parameters at once, while the export function facilitates saving or sharing parameters, further enhancing the tool's practicality.
- **Error Reduction:** Manual form generation is more prone to errors, while using the tool can reduce such errors.

UI

The interface is intuitive and easy to use, allowing users to easily set parameters and generate configurations.

The screenshot displays the 'BeaconConfigParamGenerate v1.0.0' application window. The interface is divided into several sections, with red boxes and arrows highlighting specific areas for annotation.

- 名称设置区 (Name Setting Area):** Located at the top left, it contains fields for 'name', 'prefix' (set to 'F5C-BP104E'), 'initValue' (set to '1'), 'suffix' (set to 'Hexadecimal self a'), and 'fixLength' (set to '3').
- 广播参数设置区 (Broadcast Parameter Setting Area):** Located at the top right, it contains fields for 'module' (set to 'BP103C'), 'txPower' (set to '-19.5'), 'interval' (set to '100'), and 'pin' (set to '123456').
- iBeacon参数设置区 (iBeacon Parameter Setting Area):** This is the largest section, containing a table of iBeacon configurations. Each row represents an iBeacon (iBeacon1 to iBeacon10) and includes fields for 'major', 'minor', 'init', 'max', 'min', and 'RSSI'. The 'init' field has a dropdown menu. The 'max', 'min', and 'RSSI' fields have input boxes. The 'init' field has a dropdown menu. The 'max', 'min', and 'RSSI' fields have input boxes. The 'init' field has a dropdown menu. The 'max', 'min', and 'RSSI' fields have input boxes.
- 生成的参数表保存路径 (Generated Parameter Table Save Path):** A text field at the bottom left, currently empty.
- number: 20 (Number):** A text field at the bottom center, containing the value '20'.
- 生成信息 (Generate Information):** A text field at the bottom center, currently empty.
- 参数生成按钮 (Parameter Generation Button):** A button at the bottom center, labeled '生成信息'.
- 参数规则设置区 (Parameter Rule Setting Area):** A section at the bottom right, currently empty.

Chapter 3

How to Generate Parameters Quickly

What Information is Included in Beacon Parameters?

- **Name:** The name of the Beacon, used to identify and distinguish different Beacon devices.
- **Txpower:** The signal transmission power of the Beacon device, measured in dBm.
- **Interval:** The time interval for the Beacon to broadcast signals, measured in milliseconds (ms). This parameter determines the frequency of Beacon signal broadcasts. A shorter interval can increase signal coverage but will consume more battery power.
- **Pin:** The PIN code used for connection.
- **UUID:** A globally unique identifier used to distinguish different Beacon networks or applications.
- **Major:** Used to distinguish regions or categories under the same UUID.
- **Minor:** Used to further refine the classification of Major and identify more specific locations or items.
- **Rssi:** A 1-byte value representing the average signal strength received from the advertising device at a distance of 1 meter, with a value range from 0 to -127.

Chapter 4

Custom Device Name Generation

name

prefix: FSC-BP104E initValue: 1

suffix: 36 base self addition fixLength: 3

UUID: E093E2DCBDD0C7 max

Generation Rules:

1. Fixed name prefix.
2. Name suffix generation rules: Decimal auto-increment, Hexadecimal auto-increment, Base36 auto-increment.
3. Initial value of the name suffix.
4. Required number of digits for the suffix.

Chapter 5

Generating Broadcast Interval, Transmit Power, and PIN Code Parameters

FSC BeaconConfigParamGenerate v1.0.0

name

prefix: FSC-BP104E 1

initValue: 20 3

suffix: Decimal self additior 2

fixLength: 4 4

Generation Rules:

1. Select the module model (Choose the one that matches the device' s model).
2. Enter the broadcast interval value in the settings box.
3. After selecting the module model, set the corresponding transmit power.
4. Enter the PIN code in the settings box.

Chapter 6

Generating iBeacon Parameters

BeaconConfigParamGenerate v1.0.0

name: prefix: FSC-BP104E, suffix: Hexadecimal self al, fixLength: 3, module: BP103C, txPower: -19.5, interval: 100, pin: 123456

beacon 参数界面框

iBeacon	major	minor	RSSI
iBeacon1	max: 65535, min: 1, init: 1, FixedValue	max: 65535, min: 10001, init: 10001, Increment	69
iBeacon2	max: 65535, min: 1, init: 1, FixedValue	max: 65535, min: 10001, init: 10001, Increment	69
iBeacon3	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69
iBeacon4	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69
iBeacon5	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69
iBeacon6	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69
iBeacon7	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69
iBeacon8	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69
iBeacon9	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69
iBeacon10	max: , min: , init: , FixedValue	max: , min: , init: , FixedValue	69

file path: , number: 20, 生成信息

1. **UUID** generation rule: Fixed UUID
2. **major&minor** generation rules:
 - FixedValue (Fixed Value)
 - Increment (Auto-increment)
3. max: Maximum value
4. min: Minimum value
5. int: Initial value

6. **rss**i generation rule: Fixed rss

Shenzhen Feasycom Co., Ltd.

Chapter 7

Cases

7.1 Case 1

7.1.1 Case Requirements

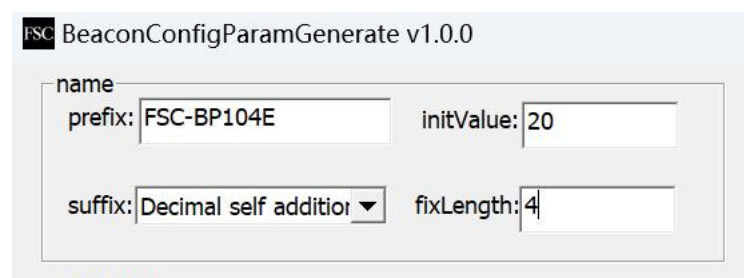
There are 1000 modules, with names ranging from **FSC-BP104E0020** to **FSC-BP104E1019**. Examples are listed as follows:

FSC-BP104E0020 FSC-BP104E0021 ...FSC-BP104E1018 FSC-BP104E1019

7.1.2 Requirement Analysis

According to the naming rules, the customer's requirement can be parsed into two parts for the module names: a fixed prefix "FSC-BP104E" and a variable 4-digit suffix. The suffix starts with an initial value of 20 and increments in decimal format. The name suffix must be 4 digits long, with leading zeros added if it has fewer than 4 digits.

7.1.3 Tool Configuration



The screenshot shows a software window titled "BeaconConfigParamGenerate v1.0.0". Inside the window, there is a configuration area with the following fields:

- name**: A label for the configuration group.
- prefix**: A text input field containing "FSC-BP104E".
- initValue**: A text input field containing "20".
- suffix**: A dropdown menu currently showing "Decimal self additor".
- fixLength**: A text input field containing "4".

7.1.4 Parameter Generation

	A	B	C	D	E
1	Name	Pin	interval	Tx Power	solt 1
2	FSC-BP104E0020	123456	100	0	iBeacon#D5
3	FSC-BP104E0021	123456	100	0	iBeacon#D5
4	FSC-BP104E0022	123456	100	0	iBeacon#D5
5	FSC-BP104E0023	123456	100	0	iBeacon#D5
6	FSC-BP104E0024	123456	100	0	iBeacon#D5
7	FSC-BP104E0025	123456	100	0	iBeacon#D5
8	FSC-BP104E0026	123456	100	0	iBeacon#D5
9	FSC-BP104E0027	123456	100	0	iBeacon#D5
10	FSC-BP104E0028	123456	100	0	iBeacon#D5

7.2 Case 2

7.2.1 Case Requirements

- **Name prefix:** wisp-
- **Suffix rules:** Decimal auto-increment, initial value is 01516, retain 5 digits.
- **UUID:** D546DF97475747EFBE093E2DCBDD0C77
- **Major:** Fixed value 1.
- **Minor:** Initial value is 01516, auto-increment, quantity is 1200.

UUID	Major	Minor	BT name	Stick serial number/Barcode
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01516	wisp-01516	wisp-01516
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01517	wisp-01517	wisp-01517
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01518	wisp-01518	wisp-01518
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01519	wisp-01519	wisp-01519
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01520	wisp-01520	wisp-01520
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01521	wisp-01521	wisp-01521
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01522	wisp-01522	wisp-01522
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01523	wisp-01523	wisp-01523
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01524	wisp-01524	wisp-01524
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01525	wisp-01525	wisp-01525
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01526	wisp-01526	wisp-01526
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01527	wisp-01527	wisp-01527
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01528	wisp-01528	wisp-01528
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01529	wisp-01529	wisp-01529
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01530	wisp-01530	wisp-01530
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01531	wisp-01531	wisp-01531
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01532	wisp-01532	wisp-01532
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01533	wisp-01533	wisp-01533
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01534	wisp-01534	wisp-01534
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01535	wisp-01535	wisp-01535
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01536	wisp-01536	wisp-01536
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01537	wisp-01537	wisp-01537
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01538	wisp-01538	wisp-01538
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01539	wisp-01539	wisp-01539
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01540	wisp-01540	wisp-01540
d546df97-4757-47ef-be09-3e2dcbbdd0c77	1	01541	wisp-01541	wisp-01541

7.2.2 Tool Configuration

BeaconConfigParamGenerate v1.0.0

name

prefix: initValue:

suffix: fixLength:

module: txPower:

interval: pin:

iBeacon1

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon2

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon3

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon4

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon5

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon6

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon7

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon8

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon9

UUID:

major: min: init:

minor: min: init:

RSSI:

iBeacon10

UUID:

major: min: init:

minor: min: init:

RSSI:

file path:

number:

生成信息

7.2.3 Parameter Generation

Name	Pin	interval	Tx Power	solt 1	solt 2	solt 3	solt 4	solt 5	solt 6	solt 7	solt 8	solt 9	solt 10	addr	model
wisp-01516	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01516#69											BP103C
wisp-01517	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01517#69											BP103C
wisp-01518	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01518#69											BP103C
wisp-01519	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01519#69											BP103C
wisp-01520	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01520#69											BP103C
wisp-01521	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01521#69											BP103C
wisp-01522	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01522#69											BP103C
wisp-01523	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01523#69											BP103C
wisp-01524	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01524#69											BP103C
wisp-01525	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01525#69											BP103C
wisp-01526	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01526#69											BP103C
wisp-01527	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01527#69											BP103C
wisp-01528	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01528#69											BP103C
wisp-01529	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01529#69											BP103C
wisp-01530	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01530#69											BP103C
wisp-01531	123456	100	0	iBeacon#D546DF97475747EFBE093E2DCBDD0C77#00001#01531#69											BP103C

Chapter 8

Appendix

8.1 Download PDF

- [Feasycom BeaconParameterGenerate User Guide \(PDF\)](#)

Shenzhen Feasycom Co., Ltd.