# Fingerprint Linux SDK Help Doc

2022-04-22

Fingerprint	Linux SDK Help Doc	1
I:Introduction		
ll:Cons	tants & functions	2
1.	Constant definition	2
2.	Common functions	3
	1).FP_SDKVersion	3
	2).FP_Init	3
	3).FP_UnInit	3
	4).FP_Version	3
	5).FP_UserCount	4
	6).FP_DelUser	4
	7).FP_CheckUser	4
	8).FP_RegUser	5
	9).FP GetFPImg	5

# I:Introduction

1. Name: libdevicesdk

## 2. Develop environment:

Linux Ubuntu 16.04 X86\_64 Gcc version 5.4.0

### 3. Lib files:

libdevicesdk.so

fingerprint.h

## II:Constants & functions

## 1. Constant definition

Name	Value	Description		
Return value				
RET_SUCCESS	0	Successful		
RET_ERROR_PORT	-1	Port error		
RET_ERROR_READ	-2	Write error		
RET_ERROR_WRITE	-3	Read error		
RET_ERROR_PARAM	-4	No permission		
RET_ERROR_MEMERY	-5	Invalid parameter		
RET_ERROR_ERRDATA	-6	Wrong data		
RET_ERROR_UNKOWN	-999	Unknown error		
RET_ERROR_FAIL	-201	failed		
RET_ERROR_FULL	-202	storage is full		
RET_ERROR_NOUSER	-203	User does not exist		
RET_ERROR_USER_EXIST	-204	User already exists		
RET_ERROR_TIMEOUT	-205	Image acquisition timeout		
RET_ERROR_BREAK	-206	Command terminated		
RET_ERROR_IMAGEFAIL	-207	Image failute		

#### 2. Common functions

1).FP SDKVersion

int FP SDKVersion()

Description: Read SDK version info

Parameter: NULL

Return: SDK version, e.g 100

Note: NULL

2).FP Init

int FP Init()

Description: Initializes the fingerprint

Parameter: NULL

Return: See <Return value>

Note: It will open node/dev/ttyUSBO, must ensure that the

current user has read and write access to the node

3).FP UnInit

int FP UnInit()

Description: Disconnect and fingerprint

Parameter: NULL

Return: See <Return value>

Note:

4).FP Version

int FP Version(unsigned char \*psz, int nLen)

Description: Read the device firmware version info

Parameter:

unsigned char \*psz: Pointer to a buffer that receives the

data.

int nLen: The length of the data to be received, It must be

greater than 128.

Return: See <Return value>

Note: NULL

5).FP\_UserCount

int FP UserCount()

Description: Get the number of registered users in the

fingerprint.
Parameter: NULL

Return: >= 0:Number of registered users.

< 0:See <Return value>

Note:

6).FP DelUser

int FP\_DelUser()

Description: Delete all fingerprints.

Parameter: NULL

Return: See <Return value>

Note:

7).FP CheckUser

int FP CheckUser()

Description: Compare the collected fingerprints with all users.

Parameter: NULL

Return: > 0:user id.

= 0:Comparison is unsuccessful.

< 0:See <Return value>

#### Note:

8).FP RegUser

int FP RegUser(unsigned short nStep)

**Description:** User registration. Need three times fingerprint. **Parameter:** 

unsigned short nStep: Fingerprint of the steps:

nStep==1, Fingerprint for the first time.

nStep==2, The second fingerprint.

nStep==3, The third fingerprinted.

Return: See <Return value>

Note: NULL

9).FP GetFPImg

int FP\_GetFPImg(char \*filename)

Description: Collect fingerprint image and save it to file.

Parameter:

char \*filename: the file path. Support JPG or BMP suffix.

Return: See <Return value>

Note: NULL