## **SMS Commands to Support 4G Device**

SMS commands are extended from tracking server to communication and configure the 4G device. These commands are implemented by short message service (SMS) sent from the mobile phone to the SIM card inserted into the 4G device. It means the 4G device's SIM has to be enabled with SMS, and the 4G device firmware will decode and execute the command.

The command format, such as #command#, #command#=parmeters, or #command:parmeters, is used to set up the command sent to the 4G device, and then the device will execute the command. Every mobile phone could send out the commands with its SIM card.

#### 1. Reviewing the Device Status

<b>Command format</b>	Description	Example
#status#	The watch sim is supposed to reply with	
	IMEI # and watch firmware version.	#status#
		傍晚5:37
		IMEI=357653050858849 SW:V901 C42F-I005I005-US-P1-V0. 3.38.20210913.115824 Battery: <u>019</u> %
		傍镜5:41
		IMEI=357653050858849 SW:V901 C42F-I005I005-US-P1-V0. 3.38.20210913.115824 Battery: <u>019</u> %
#deviceinfo#	The watch sim is supposed to reply with	n destructure n
	information, such as working mode, time	#deviceinfo#
	cycle to locate the device, the last time to	下午4:39
	locate the device, etc	Firmware C42F-I005I005-US-P1-V0. 3.38.20210913.115824 Protocol V901 IMEI 357653050858963 2021/09/18,16:39:28 Network 4G[Ite signal dbm =-99,level=3] He
		下午4.39
		artbeat[P1 112.74.138.18:5018,true, 5] Bat096,4037 charged false,Step1333 Location[M8,C600s,TWiFi, 20210918163900,BTInfalse] PPG[C0m] Temp[C0s]

Contents of reply SMS	Description
Firmware C42F-l005l005-US-P1-	The version of device firmware
V0.3.38.20210913.115824	
Protocol V901	The version of communication protocol implemented to
	the watch
IMEI 357653050858963	IMEI No. assigned to the watch.
2021/09/18,16:39:28	The time point to reply the command.
Network 4G	The current network is 4G, the signal level of 4G is 3
[Ite signal dbm =-99,level=3]	(The best signal level is 5).
Heartbeat	The server IP for uploading the heartbeat values.
[P1 112.74.138.18:5018,true,5]	The value "true" means successful network connection.
	The value "5" means heartbeat uploading interval is 5
	minutes.
	Battery level and pedometer value
Bat096,4037 charged false,	The value "096" means the battery level is 96%.
Step1333	The value "4037" means the voltage value is 4.037v.
	The value "1333" means the pedometer is 1333 steps.
Location[M8,C600s,TWiFi,20210	The value "M8" means the device is working in tracking
918163900,BTInfalse]	mode 8.The
	The value "C600s" means location data uploading
	interval is 600 seconds.
	TWiFi means the tracking way of last location is WiFi
	The value "20210918163900" is location time of the last
	location.It is 2021-09-18 16:39:00.
	BTInfalse is undefined for 4G device
PPG[C0m]	Heart rate detection interval COm means the device don't support heart rate detection
PPG[C5,P64,H108,L70,T31.00,TA 85.55,20200225230645]	The value "C5" means the heart reat uploading interval is 5 mins, The value "P64" means the value of heart rate is 64, The value "H108" means the high pressure of blood pressure is 108, The value "L70" means the low pressure of blood pressure is 70, The value "T31.00" means the wrist temperature is 31.00 degrees Celsius, The value "TA35.55" means the body temperature is
Temp[C0s]	35.55 degrees Celsius, The value " 20200225230645" means the heart rate and temperature data detection time is 2020-02-25 23:06:45.  Temperature detection interval The value "C0s" means the device don't support body
Temp[C3600s]	temperature detection.  The value "C3600s" means the temperature data
iemp[c3000s]	uploading interval is 3600 seconds.
	aproduits interval is 5000 seconds.

## 2. Setting up APN

Command format	Description	Example	
#apn#=reset#	Reset the APN configuration to		
	default value		
#apn#=current#	To check what is the existing APN saved in device firmware.	#apn#=current# 上午9:25	
		APNSettings id = 26 ,name = CMNET ,mcc=460 ,mnc=02 ,apn=c mnet ,user=null ,password=null ,ty pe=default,xcap,hipri,supl; Prefer ApnID=26  ±4925	
#apn#=MCC,MNC,ApnNa	Configure and enable a new APN		
me,apn,user,password#	parameter, or enable a existing APN	#apn#= <u>460,007</u> ,CMNET,cmnet,,#	
	parameter which is already in the	上午10:19	
	firmware.	apn add success!	
		上午10:19	
	The MCCMNC must be three digit.  Fill the two digits with 0 in the	Failure example of MNC only two digits.	
	hundreds	#apn#= <u>460</u> ,07,CMNET,cmnet,,#	
		上午9:27	
		apn add failed!	
		上午9:27	

## 3. IP Setting up Server IP

Command format	Description	Example
#ip#=reset#	To reset the server IP as factory	
	settings.	
#ip#=current#	To check the existing server IP saved	
	in watch firmware.	#ip#=current#
		上午10:22
		current serverAddress: en.beehome360.com: 5018
		上午10:23

#ip#=192.168.0.1:8080#	To set up server IP and port, support domain name.	#ip#=en.beehome360.com:5018#
		晚上9:05
		#ip#=en.beehome360.com:5018# success!
		下午2:46

# 4. Setting up WiFi

Command format	Description	Example
#wifictl#=current	To check the WiFi settings.	#wifictl#=current 中午11:43  Current Wifi Setting SSID TOTOLINK_B29D04, WiFiPassword Top12345qwert! 中午11:43
#wifictl#=reset	To remove existing WiFi settings.	
#wifictl#=switch	#wifictl#=switch,1  #wifictl#=switch,0	#wifictl#=switch,1  F43:55  WiFi Switch On!  F43:55
#wifictl#=connect,SSID,p assword,encryptType	To set up the WiFi connection parameters.	#wifictl#=switch,1
It n #wi Wif Oth SSII pas enc	It need enable WiFi with command #wifictl#=switch,1,then configure the Wifi by sending this command. Otherwise, Wifi will not be executed. SSID means the WiFi name, password means the WiFi password,	下午3:55 WiFi Switch On! 下午3:55
		#wifictl#=connect,TOTOLINK_B29D 04,Top12345qwert,aes
	encrypt Type means the way to encrypt the WiFi connection.	set and connect to Wifi SSID TOTOLINK_B29D04, WiFiPassword Top12345qwert, encryptType aes!
		下午3:56

#### 5. To Power off the Watch

Command format	Description	Example
#poweroff#	To power OFF the device remotely.	#poweroff#
	The device will reply OK SMS then	
	execute the command.	17:21
		do poweroff ok!
		19:44

#### 6. To Reboot the Watch

Command format	Description	Example	2
#reboot#	To restart the device remotely.		
	The device will reply OK SMS then		#reboot#
	execute the command.		2 min ago
		do reboot ok!	
		1 min ago	

### 7. To Reset the Watch as Factory Settings

Command format	Description		Example
#factoryreset#	To reset all parameters to factory		
	default value remotely.		#factoryreset#
	The device will reply OK SMS then		Just now
	execute the command.	do factor	ryreset ok!
		Just now	,

## 8. To configure the motion state detection for Wifi location

Command format	Description	Example
#skipmovecheck#=current	Check the current motion	
	detection status.	
#skipmovecheck#=true	To disable the sleep mode. The device will always upload location no matter what the motion state (Sleep mode ) is.	#skipmovecheck#=true
		set SkipMoveCheck true success!
#skipmovecheck#=false	To enable the sleep mode. The device will not upload any location in standing state. It will start to upload location when the Acceleration value change.	