WeHome SDK Commands Description

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History

Ver	Auth	Edit date	Changes
0.8.0	Dave	2018.7.23	New version
0.9.0	Dave	2018.9.4	1. Add data field for
			OPEN_TALK_COMMAND
			2. Add data field for PIR_SETTING
0.9.1	Dave	2018.9.21	1.Fix error description for command:
			EC_CMD_ID_GET_PLAY_RECORD_LIST
0.9.2	Dave	2018.10.31	1. Add command to Set/Get RTMP push
			URL for cloud storage.
1.0.0	Dave	2018.11.22	Fix error define of command:
			EC_CMD_ID_UPGRADE
			2. Support ring sound enable setting, motion
			indicator enable setting, charge blinking
			setting.

General description

The guide describes all the detailed information about the commands send to remote device (Battery doorbells, cameras, and etc). Both of request parameters and return values of the command are formatted as json string.

Each command's request content should contain the following parts:

cmdld	ID of the command (Refer to next part)	
Other parameters	Parameter field if exists	

And each command's return value should contain the following parts:

cmdld	ID of the command (Refer to Command ID)
result	Session check result (Refer to Session check result)
seq	The command sequence value equals to the seq parameter
	of sendCommand()

For example, the command used to get device info from remote device is formatted as following:

```
{"cmdId":512}
```

And the return value will be:

```
"cmdId":512
"result":0,
"versionName":"1.3.0.0",
"versionCode":1300,
"productName": "LinkBell",
"modelName": "M8",
"powerFreq":0,
"batPercent":40,
"timeZone":28800,
"timeDst":0,
"langCode":1,
"sdTotalMB":-1,
"sdFreeMB":-1,
"estimateRecordDays":-1,
"recordMode":0,
"talkVol":50,
```

Command ID

Each command has a unique command ID, the command ID is defined as following:

Command ID	Value	Description
EC_CMD_ID_OPEN_TALK	0x100	Open remote device's talk function
EC_CMD_ID_CLOSE_TALK	0x101	Close remote device's talk function
EC_CMD_ID_GET_DEV_INFO	0x200	Get device information, eg, firmware
		version, device name and etc.
EC CMD ID SET DEV INFO	0x201	Save device information to remote.
EC CMD ID CHANGE PASS	0x202	Change password of remote device
WORD		
EC_CMD_ID_VIDEO_MIRROR	0x203	Mirror the video for remote device
EC CMD ID VIDEO FLIP	0x204	Flip the video of remote device
EC CMD ID GET PIR INFO	0x205	Get PIR settings
EC CMD ID SET PIR INFO	0x206	Set PIR settings
EC_CMD_ID_RESTORE_TO_F	0x207	Restore remote device to factory setting
ACTORY		
EC CMD ID FORMAT SD CA	0x208	Format TF card mounted in remote device
<u>RD</u>		
EC CMD ID SET RTMP PUS	0x20D	Set RTMP push url for cloud strorage
H_URL		
EC_CMD_ID_GET_RTMP_PUS	0x20E	Get RTMP push url for cloud storage
H_URL		
EC_CMD_ID_GET_RECORD_B	0x300	Query which day contains record for special
ITMAP_BY_MON		months
EC_CMD_ID_GET_PLAY_REC	0x301	Query record list by date
ORD LIST		
EC_CMD_ID_START_PLAY_EV	0x302	Play remote video clip by event id and event
ENT_RECORD		time.
EC_CMD_ID_START_PLAY_RE	0x303	Play remote video clip by time.
CORD		
EC CMD ID STOP PLAY RE	0x304	Stop play remote video clip.
CORD		
EC_CMD_ID_UPGRADE	0x400	Upgrade the firmware of a remote device

Session check result

Value	Description	
0	Success	
-1	Session non-existent or expired	

Commands description

EC_CMD_ID_OPEN_TALK

Function	Open talk function for remote device	
Parameter	cmdld	Refer to Command ID
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	openTalkResult	0=Success
		Other=Occupied by another user
		(This field only available since FW V1.3.0.3)
	seq	Command sequence value
Note		

EC_CMD_ID_CLOSE_TALK

Function	Close talk function for remote device	
Parameter	cmdld Refer to Command ID	
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_GET_DEV_INFO

Function	Get device information	Get device information	
Parameter	cmdld	Refer to Command ID	
Return	cmdld	Refer to Command ID	
	result	Refer to Session check result	
	seq	Command sequence value	
	versionName	Firmware version name, eg: 1.3.0.0	
	versionCode	Firmware version code, eg: 1300	
	productName	Product name,eg:LinkBell	
	modelName	Product model name, eg: M8	
	powerFreq	Power frequency, 0 is 50HZ, 1 is 60HZ	
	batPerCent	Battery remain percent: 0~100	
	timeZone	Time zone in unit second, eg: 28800 means	
	langCode	GMT+8, -28800 means GMT-8 Language code, unused	
	sdTotalMB	Total capacity of remote TF card in	
		megabytes, -1 means TF card is unmounted.	
	sdFreeMB	Remain size of remote TF card in	
		megabytes, -1 means TF card is	
		unmounted.	
	estimateRecordDay s	Estimate days the remote TF card can record	
	recordMode	Record mode	
		0, Stop record if TF card is full.	
		1, Loop record	
	talkVol	Microphone's volume of remote device,	
	E Di	0~100	
	timeDst	Day light saving int minutes, eg: -60 means	
	1. 10. 11.1	-1Hour	
	ledSwitch	Enable LED indicator when motion detected	
		or not.	
		1: Enable	
	audio Switch Pina	0: Disable	
	audioSwitchRing	Enable play ring sound when press doorbell	
		button.	
		1: Play sound	

		2: Don't play sound
	disableChargingBlin	Disable charge indicator blinking or not.
	k	1: Disable
		0: Enable
Note		

EC_CMD_ID_SET_DEV_INFO

Function	Save device settings	
Parameter	cmdld	Refer to Command ID
	utcTime	UTC time
	timeZone	Time zone
	powerFreq	Power frequency, 0 is 50HZ, 1 is 60HZ
	langCode	Language code, unused
	recordMode	Record mode
	talkVol	Microphone's volume of remote device,
		0~100
	timeDst	Day light saving
	ledSwitch	Enable LED indicator when motion detected
		or not.
		1: Enable
		0: Disable
	audioSwitchRing	Enable play ring sound when press doorbell
		button.
		1: Play sound
		2: Don't play sound
	disableChargingBlin	Disable charge indicator blinking or not.
	k	1: Disable
	7	0: Enable
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_CHANGE_PASSWORD

Function	Change password of	remote device
Parameter	cmdld	Refer to Command ID
	oldPsw	Old password
	newPsw	New password
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	changePswRet	Result of change password:
		0: Success
		-1: Change failed, old password check
		failed.
	eventChannel	Event channel for notification subscribe/Un-
		subscribe
Note	Event channel will	be changed if remote password changed
	successfully.	

EC_CMD_ID_VIDEO_MIRROR

Function	Mirror the video for remote device	
Parameter	cmdld Refer to Command ID	
Return	cmdld Refer to Command ID	
	result Refer to Session check result	
	seq	Command sequence value
Note		

EC_CMD_ID_VIDEO_FLIP

Function	Flip the video of remote device		
Parameter	cmdld	cmdld Refer to Command ID	
Return	cmdld	Refer to Command ID	
	result	Refer to Session check result	
	seq	Command sequence value	

Note

EC_CMD_ID_GET_PIR_INFO

Function	Get PIR settings	
Parameter	cmdld	Refer to Command ID
areReturn	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	enable	Motion detection is enable or not
		0, Motion detection disabled
		1, Motion detection is enabled
	sensitivity	Motion detection sensitivity
		0, Low
		1, Middle
		2, High
	weekBitmap	Indicates which day's motion detection is
		enabled in a week.
		0000000> Sun Mon ~~~ Fri Sat
		Eg:
		0000001 means motion detection is
		enabled on Saturday and the others day is
		disabled.
		1000000 means motion detection is
		enabled on Sunday and the others day is
		disabled.
		1100000 means motion detection is
		enabled on Saturday and Monday, the
		others day is disabled.
	area	Motion detection area
		Detection area is divided into 3 parts: left,
		middle and right, bit0 indicates the right
		area on off status, bit1 indicates the middle
		area on off status and bit2 indicates the left
		area on off status.
		Eg: 0b111 means all areas are enabled.

		0b100 means only left area is enabled. (This field only available since FW V1.3.0.3)
	detectTimeSun	Detection time for Sunday
		Eg: 0x01 means motion detection is enabled start
		from 0:00 to 00:59
	detectTimeMon	Detection time for Monday.
	detectTimeTue	Detection time for Tuesday.
	detectTimeWed	Detection time for Wednesday.
	detectTimeThu	Detection time for Thursday.
	detectTimeFri	Detection time for Friday.
	detectTimeSat	Detection time for Saturday.
	recordDuration	Unused
Note		

EC_CMD_ID_SET_PIR_INFO

Function	Set PIR settings	
Parameter	cmdld	Refer to Command ID
	enable	Motion detection is enable or not
		0, Motion detection disabled
		1, Motion detection is enabled
	sensitivity	Motion detection sensitivity
		0, Low
		1, Middle
		2, High
	weekBitmap	Indicates which day's motion detection is
		enabled in a week.
		0000000> Sun Mon ~~~ Fri Sat
		Eg:
		0000001 means motion detection is
		enabled on Saturday and the others day is
		disabled.
		1000000 means motion detection is
		enabled on Sunday and the others day is
		disabled.
		1100000 means motion detection is

Return	cmdld result	Refer to Command ID Refer to Session check result
	recordDuration	Unused
	detectTimeSat	Detection time for Saturday.
	detectTimeFri	Detection time for Friday.
	detectTimeThu	Detection time for Thursday.
	detectTimeWed	Detection time for Wednesday.
	detectTimeTue	Detection time for Tuesday.
	detectTimeMon	Detection time for Monday.
		from 0:00 to 00:59
		Eg: 0x01 means motion detection is enabled start
	detectTimeSun	Detection time for Sunday,
	area	Motion detection area
		others day is disabled.
		enabled on Saturday and Monday, the

EC_CMD_ID_RESTORE_TO_FACTORY

Function	Restore remote device to factory setting	
Parameter	cmdld Refer to Command ID	
Return	cmdId Refer to Command ID	
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_FORMAT_SD_CARD

Function	Format TF card mounted in remote device	
Parameter	cmdld Refer to Command ID	
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	formatRet	Format result

Note		
	ys	
	estimateRecordDa	Estimate days the remote TF card can record
	sdFreeMB	Remain size of remote TF card in megabytes
	sdTotalMB	Capacity of remote TF card in megabytes
		SD_FORMAT_RESULT_FAIL_UNKOWN (-3)
		SD_FORMAT_RESULT_FAIL_UMOUNT_FAIL (-2)
		SD_FORMAT_RESULT_FAIL_NOT_EXIST (-1)
		SD_FORMAT_RESULT_SUCCESS (0)

EC_CMD_ID_SET_RTMP_PUSH_URL

Function	Set RTMP push url for cloud storage	
Parameter	cmdld	Refer to Command ID
	url	RTMP push url, eg: rtmp://192.168.1.173
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_GET_RTMP_PUSH_URL

Function	Set RTMP push url for cloud storage	
Parameter	cmdld	Refer to Command ID
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	url	RTMP push url, eg: rtmp://192.168.1.173
Note	UID and recordId will be added to rtmp push url automatically, eg,	
	the full rtmp url will be: rtmp://192.168.1.173/LBCS-000000-	
	CCCXX/123456.	
	recordId equals the	recordId filed in notification's payload.

EC_CMD_ID_RECORD_BITMAP_BY_MON

Function	Query which day contains record for special months	
Parameter	cmdld	Refer to Command ID
	year	Year
	month	Month
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	bitmap	Bitmap value indicates which day has record
		Eg:
		010000000000000000000000000000000000000
		Means the 31th day has record
		010000000000000000000000000000000000000
		Means the first day and 31th day have
		record
Note		

EC_CMD_ID_GET_PLAY_RECORD_LIST

Function	Query record list by date	
Parameter	cmdld	Refer to Command ID
	year	Eg: 2018
	month	Eg: 9
	day	Eg: 21
	page	Page start from 1, each page contains
		maximum 100 records
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	recordList	Record file name list
	recordPage	Current page
	recordTotalNums	Total record number
	getRecordListRet	Command result

		0=Success other=Fail
Note	None	

EC_CMD_ID_START_PLAY_EVENT_RECORD

Function	Start play record by	Start play record by record ID and event time.	
Parameter	cmdld	Refer to Command ID	
	eventTimeUTC	Event time in UTC seconds	
	recordId	Record ID in payload of notification	
Return	cmdld	Refer to Command ID	
	result	Refer to Session check result	
	seq	Command sequence value	
Note			

EC_CMD_ID_START_PLAY_RECORD

Function	Start play record by file name	
Parameter	cmdld	Refer to Command ID
	pbFileName	Record file name
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
	startPbRet	Start playback result:
		START_PLAY_RECORD_RESULT_SUCC
		ESS = 0,
		START_PLAY_RECORD_RESULT_TF_NO
		T_EXIST = -1,
		START_PLAY_RECORD_RESULT_FAIL_A
		LREADY_STARTED = -2,
		START_PLAY_RECORD_RESULT_OPEN
		_FILE_FAIL = -3,
		START_PLAY_RECORD_RESULT_EXCE
		ED_MAX_CONNECTION = -4,
		START_PLAY_RECORD_RESULT_FAIL_U
		NKOWN = -5,

		START_PLAY_RECORD_RESULT_FAIL_F
		ILE_NOT_EXIST = -6,
	videoWidth	Video width
	videoHeight	Video height
	totalFrame	Total frames of the video clip
	totalTime	Total time of the video clip
	supportSessioNo	Unused
Note		

EC_CMD_ID_STOP_PLAY_RECORD

Function	Stop play remote video clip.	
Parameter	cmdld	Refer to Command ID
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		

EC_CMD_ID_UPGRADE

Function	Upgrade the firmware of a remote device	
Parameter	cmdld	Refer to Command ID
	url	Download URL of firmware to upgrade
Return	cmdld	Refer to Command ID
	result	Refer to Session check result
	seq	Command sequence value
Note		